

2018 Index

IEEE Transactions on Biomedical Engineering

Vol. 65

This index covers all technical items—papers, correspondence, reviews, etc.—that appeared in this periodical during 2018, and items from previous years that were commented upon or corrected in 2018. Departments and other items may also be covered if they have been judged to have archival value.

The Author Index contains the primary entry for each item, listed under the first author's name. The primary entry includes the coauthors' names, the title of the paper or other item, and its location, specified by the publication abbreviation, year, month, and inclusive pagination. The Subject Index contains entries describing the item under all appropriate subject headings, plus the first author's name, the publication abbreviation, month, and year, and inclusive pages. Note that the item title is found only under the primary entry in the Author Index.

AUTHOR INDEX

A

- Abbosh, A.**, *see* Manoufali, M., *TBME Jan. 2018 4-14*
- Abbott, D.**, *see* Huang, X., *TBME May 2018 949-955*
- Abdrakhmanova, M.**, *see* Massalin, Y., *TBME Aug. 2018 1759-1770*
- Abdullah, B.**, *see* Mason, A., *TBME March 2018 698-705*
- Abolghasemi, V.**, *see* Ferdowsi, S., *TBME Aug. 2018 1717-1724*
- Abolmaesumi, P.**, *see* Barnes, J., *TBME April 2018 921-927*
- Abolmaesumi, P.**, *see* Nahlawi, L., *TBME Aug. 2018 1798-1809*
- Abramson, R.G.**, *see* Huo, Y., *TBME Feb. 2018 336-343*
- Abry, P.**, *see* Valenza, G., *TBME Oct. 2018 2345-2354*
- Acciaroli, G.**, Vettoretti, M., Facchinetti, A., Sparacino, G., and Cobelli, C., Reduction of Blood Glucose Measurements to Calibrate Subcutaneous Glucose Sensors: A Bayesian Multiday Framework; *TBME March 2018 587-595*
- Acerbi, G.**, *see* Betti, S., *TBME Aug. 2018 1748-1758*
- Adabi, S.**, *see* Mozaffarzadeh, M., *TBME Jan. 2018 31-42*
- Adal, K.M.**, van Etten, P.G., Martinez, J.P., Rouwen, K.W., Vermeer, K.A., and van Vliet, L.J., An Automated System for the Detection and Classification of Retinal Changes Due to Red Lesions in Longitudinal Fundus Images; *TBME June 2018 1382-1390*
- Adali, T.**, *see* Iqbal, A., *TBME Nov. 2018 2519-2528*
- Afsarimanesh, N.**, Mukhopadhyay, S.C., and Kruger, M., Molecularly Imprinted Polymer-Based Electrochemical Biosensor for Bone Loss Detection; *TBME June 2018 1264-1271*
- Ai, W.**, Patel, N.D., Roop, P.S., Malik, A., Andalam, S., Yip, E., Allen, N., and Trew, M.L., A Parametric Computational Model of the Action Potential of Pacemaker Cells; *TBME Jan. 2018 123-130*
- Ait-Ahmed, M.**, *see* MohammadRidha, T., *TBME Jan. 2018 199-206*
- Ajiboye, A.B.**, *see* Willett, F.R., *TBME Sept. 2018 2066-2078*
- Akbarian, A.**, Niknam, K., Parsa, M., Clark, K., Noudoost, B., and Nategh, N., Developing a Nonstationary Computational Framework With Application to Modeling Dynamic Modulations in Neural Spiking Responses; *TBME Feb. 2018 241-253*
- Akcakaya, M.**, *see* Rothfuss, M.A., *TBME Oct. 2018 2290-2297*
- Akcakaya, M.**, *see* Hossein Hosseini, S.A., *TBME Oct. 2018 2365-2374*
- Akcakaya, M.**, *see* Kleckner, I.R., *TBME July 2018 1460-1467*
- Akeju, O.**, *see* Nagaraj, S.B., *TBME Dec. 2018 2684-2691*
- Al-Nashash, H.**, *see* Mir, H., *TBME March 2018 511-520*
- Alaa, A.M.**, Yoon, J., Hu, S., and van der Schaar, M., Personalized Risk Scoring for Critical Care Prognosis Using Mixtures of Gaussian Processes; *TBME Jan. 2018 207-218*
- Alazzawi, Y.**, *see* Kondapalli, S.H., *TBME Jan. 2018 149-158*
- Albatat, M.**, *see* Bose, P., *TBME Dec. 2018 2798-2807*
- Alexander, A.L.**, *see* Lee, M., *TBME Oct. 2018 2323-2333*
- Alizad, A.**, *see* Bayat, M., *TBME Oct. 2018 2237-2247*
- Alizad, A.**, *see* Kumar, V., *TBME July 2018 1468-1475*
- All, A.**, *see* Mir, H., *TBME March 2018 511-520*
- Allen, N.**, *see* Ai, W., *TBME Jan. 2018 123-130*
- Alwan, Y.**, Cvetkovic, Z., and Curtis, M.J., Methods for Improved Discrimination Between Ventricular Fibrillation and Tachycardia; *TBME Oct. 2018 2143-2151*
- Amick, R.Z.**, *see* Cluff, K., *TBME April 2018 847-856*
- Amida, T.**, Nakaoka, R., Komarov, D.A., Yamamoto, K., Inanami, O., Matsumoto, S., and Hirata, H., A 750-MHz Electronically Tunable Resonator Using Microstrip Line Couplers for Electron Paramagnetic Resonance Imaging of a Mouse Tumor-Bearing Leg; *TBME May 2018 1124-1132*
- Andalam, S.**, *see* Ai, W., *TBME Jan. 2018 123-130*
- Anderson, T.**, *see* Diamantis, K., *TBME Aug. 2018 1840-1851*
- Angeli, T.R.**, *see* Mayne, T.P., *TBME Feb. 2018 319-326*
- Annoni, E.M.**, Arunachalam, S.P., Kapa, S., Mulpuru, S.K., Friedman, P.A., and Tolkacheva, E.G., Novel Quantitative Analytical Approaches for Rotor Identification and Associated Implications for Mapping; *TBME Feb. 2018 273-281*
- Anthony, B.W.**, *see* Zakrzewski, A.M., *TBME Sept. 2018 2011-2022*
- Anthony, B.W.**, *see* Zakrzewski, A.M., *TBME Nov. 2018 2405-2416*
- Apitz, M.**, *see* Moccia, S., *TBME Nov. 2018 2649-2659*
- Armitstead, J.**, *see* Javed, F., *TBME March 2018 669-677*
- Arunachalam, S.P.**, *see* Annoni, E.M., *TBME Feb. 2018 273-281*
- Aschemann, H.**, *see* Geier, A., *TBME Nov. 2018 2471-2482*
- Ashinoff, R.**, *see* Mirbeik-Sabzevari, A., *TBME June 2018 1320-1329*
- Assad, A.**, *see* Huo, Y., *TBME Feb. 2018 336-343*
- Audebert, C.**, Peeters, G., Segers, P., Laleman, W., Monbaliu, D., Korf, H., Trebicka, J., Vignon-Clementel, I.E., and Debbaut, C., Closed-Loop Lumped Parameter Modeling of Hemodynamics During Cirrhogenesis in Rats; *TBME Oct. 2018 2311-2322*
- Augat, P.**, *see* Hollensteiner, M., *TBME Aug. 2018 1852-1858*
- Augustyniak, P.**, *see* Moszkowski, T., *TBME March 2018 550-555*
- Avolio, A.P.**, *see* Xiao, H., *TBME June 2018 1226-1234*
- Avolio, A.P.**, *see* Butlin, M., *TBME Nov. 2018 2377-2383*
- Avril, S.**, *see* Behdadfar, S., *TBME June 2018 1391-1398*
- Axel, L.**, *see* Bernardis, E., *TBME April 2018 733-744*

B

- Babadi, B.**, *see* Kazempour, A., *TBME Jan. 2018 74-86*
- Babadi, B.**, *see* Pirondini, E., *TBME June 2018 1359-1372*
- Babaie, M.**, *see* Tizhoosh, H.R., *TBME Oct. 2018 2267-2277*
- Badel, P.**, *see* Chassagne, F., *TBME Feb. 2018 449-457*
- Bader, R.**, *see* Geier, A., *TBME Nov. 2018 2471-2482*
- Baek, H.J.**, *see* Jung, D.W., *TBME March 2018 706-712*
- Bai, J.**, *see* Zhang, G., *TBME Sept. 2018 2130-2133*
- Bai, Y.**, *see* Shahriari, Y., *TBME April 2018 745-753*
- Bailon, R.**, *see* Orini, M., *TBME July 2018 1443-1451*
- Baker, C.**, *see* Pant, S., *TBME Nov. 2018 2450-2458*
- Balasingham, I.**, *see* Bose, P., *TBME Dec. 2018 2798-2807*
- Balasubramanian, S.**, Garcia-Cossio, E., Birbaumer, N., Burdet, E., and Ramos-Murguialday, A., Is EMG a Viable Alternative to BCI for Detecting Movement Intention in Severe Stroke?; *TBME Dec. 2018 2790-2797*
- Baran Pouyan, M.**, *see* Hersek, S., *TBME June 2018 1291-1300*
- Barazzetti, L.**, *see* Lu, P., *TBME Jan. 2018 178-188*
- Barber, T.**, *see* Colley, E., *TBME Aug. 2018 1885-1891*
- Barbieri, R.**, *see* Valenza, G., *TBME Oct. 2018 2345-2354*
- Barbieri, R.**, *see* Valenza, G., *TBME May 2018 1077-1085*
- Bardakjian, B.L.**, *see* Grigorovsky, V., *TBME July 2018 1504-1515*
- Bardakjian, B.L.**, *see* Jacobs, D., *TBME Nov. 2018 2440-2449*
- Barin, E.**, *see* Butlin, M., *TBME Nov. 2018 2377-2383*
- Barnes, J.**, Li, S., Goyal, A., Abolmaesumi, P., Mousavi, P., and Looock, H., Broadband Vibration Detection in Tissue Phantoms Using a Fiber Fabry-Perot Cavity; *TBME April 2018 921-927*
- Baroni, G.**, *see* Seregini, M., *TBME Jan. 2018 131-139*
- Bartlett, H.L.**, and Goldfarb, M., A Phase Variable Approach for IMU-Based Locomotion Activity Recognition; *TBME June 2018 1330-1338*
- Bayat, M.**, Nabavizadeh, A., Kumar, V., Gregory, A., Insana, M., Alizad, A., and Fatemi, M., Automated *In Vivo* Sub-Hertz Analysis of Viscoelasticity (SAVE) for Evaluation of Breast Lesions; *TBME Oct. 2018 2237-2247*
- Bayes-de-Luna, A.**, *see* Martin-Yebra, A., *TBME March 2018 635-644*
- Becker, R.**, *see* Cluff, K., *TBME April 2018 847-856*
- Beddoes, G.**, *see* Brown, O.I., *TBME Aug. 2018 1711-1716*
- Begon, M.**, *see* Blache, Y., *TBME April 2018 715-722*

- Behdadfar, S.**, Navarro, L., Sundnes, J., Maleckar, M., Ross, S., Odland, H.H., and Avril, S., A Centerline-Based Model Morphing Algorithm for Patient-Specific Finite Element Modeling of the Left Ventricle; *TBME June 2018* 1391-1398
- Bekkers, E.**, see Zhang, J., *TBME May 2018* 1151-1165
- Bellizzi, G.**, Bellizzi, G.G., Bucci, O.M., Crocco, L., Helbig, M., Ley, S., and Sachs, J., Optimization of the Working Conditions for Magnetic Nanoparticle-Enhanced Microwave Diagnostics of Breast Cancer; *TBME July 2018* 1607-1616
- Bellizzi, G.G.**, see Bellizzi, G., *TBME July 2018* 1607-1616
- Bello, F.**, see Granados, A., *TBME Sept. 2018* 2042-2051
- Bellomi, M.**, see Seregini, M., *TBME Jan. 2018* 131-139
- Belohlavek, M.**, see Kumar, V., *TBME July 2018* 1468-1475
- Ben-Zvi, H.**, see Yahav, G., *TBME Dec. 2018* 2731-2741
- Benyo, B.**, see Dickson, J.L., *TBME July 2018* 1543-1553
- Berendschot, T.T.J.M.**, see Zhang, J., *TBME May 2018* 1151-1165
- Bereuter, L.**, see Zurbuchen, A., *TBME Feb. 2018* 424-430
- Berg, L.A.**, see Ulyesses, J.N., *TBME Dec. 2018* 2760-2768
- Berger, T.W.**, see Bingham, C.S., *TBME Oct. 2018* 2278-2289
- Bergsland, J.**, see Bose, P., *TBME Dec. 2018* 2798-2807
- Berkovic, S.F.**, see Nurse, E.S., *TBME Feb. 2018* 344-352
- Bernardini, R.**, see Da Poian, G., *TBME June 2018* 1349-1358
- Bernardis, E.**, Zhang, Y., Konukoglu, E., Ou, Y., Javitz, H.S., Axel, L., Metaxas, D., Desjardins, B., and Pohl, K.M., eCurves: A Temporal Shape Encoding; *TBME April 2018* 733-744
- Berthoumieu, Y.**, see Zanini, P., *TBME May 2018* 1107-1116
- Bethhauser, J.L.**, Hunt, C.L., Osborn, L.E., Masters, M.R., Levay, G., Kallik, R.R., and Thakor, N.V., Limb Position Tolerant Pattern Recognition for Myoelectric Prosthesis Control with Adaptive Sparse Representations From Extreme Learning; *TBME April 2018* 770-778
- Betti, S.**, Lova, R.M., Rovini, E., Acerbi, G., Santarelli, L., Cabiati, M., Ry, S.D., and Cavallo, F., Evaluation of an Integrated System of Wearable Physiological Sensors for Stress Monitoring in Working Environments by Using Biological Markers; *TBME Aug. 2018* 1748-1758
- Bhonsle, S.**, Lorenzo, M.F., Safaai-Jazi, A., and Davalos, R.V., Characterization of Nonlinearity and Dispersion in Tissue Impedance During High-Frequency Electroporation; *TBME Oct. 2018* 2190-2201
- Bhonsle, S.**, see Zhao, Y., *TBME Aug. 2018* 1810-1819
- Bia, P.**, see Mescia, L., *TBME Feb. 2018* 414-423
- Bialkowski, K.**, see Manoufali, M., *TBME Jan. 2018* 4-14
- Billings, J.C.**, see Shakil, S., *TBME Feb. 2018* 254-263
- Bingham, C.S.**, Loizos, K., Yu, G.J., Gilbert, A., Bouteiller, J.C., Song, D., Lazzi, G., and Berger, T.W., Model-Based Analysis of Electrode Placement and Pulse Amplitude for Hippocampal Stimulation; *TBME Oct. 2018* 2278-2289
- Birbaumer, N.**, see Balasubramanian, S., *TBME Dec. 2018* 2790-2797
- Birrenkott, D.A.**, Pimentel, M.A., Watkinson, P.J., and Clifton, D.A., A Robust Fusion Model for Estimating Respiratory Rate From Photoplethysmography and Electrocardiography; *TBME Sept. 2018* 2033-2041
- Biswal, S.**, see Nagaraj, S.B., *TBME Dec. 2018* 2684-2691
- Blabe, C.H.**, see Even-Chen, N., *TBME Aug. 2018* 1771-1784
- Blabe, C.H.**, see Willett, F.R., *TBME Sept. 2018* 2066-2078
- Blache, Y.**, and Begon, M., Influence of Shoulder Kinematic Estimate on Joint and Muscle Mechanics Predicted by Musculoskeletal Model; *TBME April 2018* 715-722
- Blackford, E.B.**, see McDuff, D.J., *TBME Aug. 2018* 1725-1739
- Bocchi, L.**, see Sorelli, M., *TBME Dec. 2018* 2742-2750
- Boddeda, A.**, see Wang, Z., *TBME July 2018* 1524-1531
- Boes, S.**, see Petrou, A., *TBME Oct. 2018* 2355-2364
- Bonnet, J.**, see Romero-Ugalde, H.M., *TBME July 2018* 1630-1638
- Boppart, S.A.**, see Huang, P., *TBME Dec. 2018* 2837-2846
- Bordas, S.P.A.**, see Bui, H.P., *TBME March 2018* 596-607
- Bosch, J.G.**, see Janjic, J., *TBME Oct. 2018* 2210-2218
- Bose, P.**, Khaleghi, A., Albatat, M., Bergsland, J., and Balasingham, I., RF Channel Modeling for Implant-to-Implant Communication and Implant to Subcutaneous Implant Communication for Future Leadless Cardiac Pacing; *TBME Dec. 2018* 2798-2807
- Bosshard, S.**, see Zurbuchen, A., *TBME Feb. 2018* 424-430
- Bou Assi, E.**, Nguyen, D.K., Rihana, S., and Sawan, M., A Functional-Genetic Scheme for Seizure Forecasting in Canine Epilepsy; *TBME June 2018* 1339-1348
- Boulakia, M.**, see Raphel, F., *TBME June 2018* 1311-1319
- Bouteiller, J.C.**, see Bingham, C.S., *TBME Oct. 2018* 2278-2289
- Boyle, E.J.**, see Nagaraj, S.B., *TBME Dec. 2018* 2684-2691
- Brinkmann, B.H.**, see Korshunova, I., *TBME March 2018* 502-510
- Brokaw, E.B.**, see Pulliam, C.L., *TBME Jan. 2018* 159-164
- Brooks, D.H.**, see Coll-Font, J., *TBME July 2018* 1554-1563
- Brown, O.I.**, Nikolaidou, T., Beddoes, G., Hoye, A., and Clark, A.L., The HF-CGM Study: An Analysis of Cardiogoniometric Axes in Patients With Cardiac Resynchronization Therapy; *TBME Aug. 2018* 1711-1716
- Bucci, O.M.**, see Bellizzi, G., *TBME July 2018* 1607-1616
- Bui, H.P.**, Tomar, S., Courtecuise, H., Cotin, S., and Bordas, S.P.A., Real-Time Error Control for Surgical Simulation; *TBME March 2018* 596-607
- Bunck, A.C.**, see Thyagaraj, S., *TBME July 2018* 1516-1523
- Buonocore, J.**, see Jeong, S., *TBME Feb. 2018* 431-439
- Burack, M.A.**, see Pulliam, C.L., *TBME Jan. 2018* 159-164
- Burdet, E.**, see Balasubramanian, S., *TBME Dec. 2018* 2790-2797
- Burnett, G.**, see Stolyarov, R., *TBME April 2018* 763-769
- Busonera, G.**, Cogoni, M., Puligheddu, M., Ferri, R., Milioli, G., Parrino, L., Marrosu, F., and Zanetti, G., EEG Spectral Coherence Analysis in Nocturnal Epilepsy; *TBME Dec. 2018* 2713-2719
- Butlin, M.**, see Xiao, H., *TBME June 2018* 1226-1234
- Butlin, M.**, Shirbani, F., Barin, E., Tan, I., Spronck, B., and Avolio, A.P., Cuffless Estimation of Blood Pressure: Importance of Variability in Blood Pressure Dependence of Arterial Stiffness Across Individuals and Measurement Sites; *TBME Nov. 2018* 2377-2383

C

- Caamano, A.J.**, see Sanroman-Junquera, M., *TBME April 2018* 723-732
- Cabiati, M.**, see Betti, S., *TBME Aug. 2018* 1748-1758
- Cai, H.**, Chen, P., Chen, J., Cai, J., Song, Y., and Han, G., WaveDec: A Wavelet Approach to Identify Both Shared and Individual Patterns of Copy-Number Variations; *TBME Feb. 2018* 353-364
- Cai, J.**, see Cai, H., *TBME Feb. 2018* 353-364
- Cai, S.**, see Wang, K., *TBME Feb. 2018* 440-448
- Caiani, E.G.**, see Martin-Yebra, A., *TBME March 2018* 635-644
- Calhoun, V.D.**, see Hu, W., *TBME Feb. 2018* 390-399
- Calvet, L.**, see McLeod, K., *TBME Dec. 2018* 2769-2780
- Calviello, L.**, see Kaczmarek, K., *TBME March 2018* 619-624
- Camplani, M.**, see Soleimani, V., *TBME June 2018* 1421-1431
- Cao, S.**, see Hu, W., *TBME Feb. 2018* 390-399
- Cao, S.**, see Luo, G., *TBME Sept. 2018* 1924-1934
- Cao, X.**, Yang, J., Zhang, J., Wang, Q., Yap, P., and Shen, D., Deformable Image Registration Using a Cue-Aware Deep Regression Network; *TBME Sept. 2018* 1900-1911
- Cao, Z.**, Gondhalekar, R., Dassau, E., and Doyle, F.J., Extremum Seeking Control for Personalized Zone Adaptation in Model Predictive Control for Type 1 Diabetes; *TBME Aug. 2018* 1859-1870
- Caratelli, D.**, see Mescia, L., *TBME Feb. 2018* 414-423
- Carek, A.M.**, see Kim, C., *TBME Nov. 2018* 2384-2391
- Carlen, P.L.**, see Jacobs, D., *TBME Nov. 2018* 2440-2449
- Carniel, E.L.**, see Frigo, A., *TBME July 2018* 1476-1485
- Carrault, G.**, see Romero-Ugalde, H.M., *TBME July 2018* 1630-1638
- Carroll, J.**, see Colley, E., *TBME Aug. 2018* 1885-1891
- Cavallo, F.**, see Betti, S., *TBME Aug. 2018* 1748-1758
- Chaillous, L.**, see MohammadRidha, T., *TBME Jan. 2018* 199-206
- Chakrabarty, S.**, see Kondapalli, S.H., *TBME Jan. 2018* 149-158
- Chakrabarty, A.**, Zavitsanou, S., Doyle, F.J., and Dassau, E., Event-Triggered Model Predictive Control for Embedded Artificial Pancreas Systems; *TBME March 2018* 575-586
- Chandran, V.**, see Lu, P., *TBME Jan. 2018* 178-188
- Chaney, E.J.**, see Huang, P., *TBME Dec. 2018* 2837-2846
- Chang, H.**, see Ma, S., *TBME Oct. 2018* 2219-2230
- Chang, H.**, Li, C., and Gallogly, A.H., Brain MR Image Restoration Using an Automatic Trilateral Filter With GPU-Based Acceleration; *TBME Feb. 2018* 400-413
- Chang, S.**, see Wang, S., *TBME Sept. 2018* 2052-2057
- Chao, J.**, see Jia, D., *TBME April 2018* 839-846
- Chase, J.G.**, see Dickson, J.L., *TBME July 2018* 1543-1553
- Chassagne, F.**, Molimard, J., Convert, R., Giraux, P., and Badel, P., Numerical Model Reduction for the Prediction of Interface Pressure Applied by Compression Bandages on the Lower Leg; *TBME Feb. 2018* 449-457
- Chaudhury, S.**, see Dang, S., *TBME May 2018* 1057-1068
- Chekmareva, M.A.**, see Park, K., *TBME Jan. 2018* 96-103
- Chembrammell, P.**, see Sankaran, N.K., *TBME Nov. 2018* 2483-2493
- Chen, B.**, see Zhang, Z., *TBME April 2018* 936-946
- Chen, C.**, Han, Y., Chen, Y., Lai, H., Zhang, F., Wang, B., and Liu, K.J.R., TR-BREATH: Time-Reversal Breathing Rate Estimation and Detection; *TBME March 2018* 489-501
- Chen, C.**, see Mischi, M., *TBME April 2018* 875-884

- Chen, D.**, see Zhang, J., *TBME May 2018 1151-1165*
- Chen, F.**, see Liu, J., *TBME Sept. 2018 1943-1952*
- Chen, G.**, Stang, J., Haynes, M., Leuthardt, E., and Moghaddam, M., Real-Time Three-Dimensional Microwave Monitoring of Interstitial Thermal Therapy; *TBME March 2018 528-538*
- Chen, G.**, see Fan, Z., *TBME Feb. 2018 378-389*
- Chen, H.**, see Zhao, Y., *TBME Sept. 2018 1975-1984*
- Chen, J.**, see Cai, H., *TBME Feb. 2018 353-364*
- Chen, J.**, see Hu, W., *TBME Feb. 2018 390-399*
- Chen, P.**, see Cai, H., *TBME Feb. 2018 353-364*
- Chen, Q.**, see Wu, M., *TBME Jan. 2018 87-95*
- Chen, Q.**, see Fei, C., *TBME Sept. 2018 2087-2092*
- Chen, R.**, see Peng, J., *TBME Jan. 2018 140-148*
- Chen, R.**, Jiang, T., Lu, F., Wang, K., and Kong, D., Semiautomatic Radiofrequency Ablation Planning Based on Constrained Clustering Process for Hepatic Tumors; *TBME March 2018 645-657*
- Chen, R.K.**, see Yang, C., *TBME Feb. 2018 365-370*
- Chen, S.**, see Urban, B.E., *TBME Jan. 2018 232-238*
- Chen, S.**, see Peng, J., *TBME Jan. 2018 140-148*
- Chen, S.**, see Liu, Q., *TBME Oct. 2018 2136-2142*
- Chen, W.**, see Park, K., *TBME Jan. 2018 96-103*
- Chen, X.**, see Nakanishi, M., *TBME Jan. 2018 104-112*
- Chen, Y.**, see Chen, C., *TBME March 2018 489-501*
- Chen, Y.**, Xu, S., Squires, A., Seifabadi, R., Turkbey, I.B., Pinto, P.A., Choyke, P., Wood, B., and Tse, Z.T.H., MRI-Guided Robotically Assisted Focal Laser Ablation of the Prostate Using Canine Cadavers; *TBME July 2018 1434-1442*
- Chen, Z.**, see Wang, K., *TBME Feb. 2018 440-448*
- Chen, Z.**, see Lu, H., *TBME April 2018 809-820*
- Cheng, K.**, see Zhang, G., *TBME Sept. 2018 2130-2133*
- Cheng, K.**, see Yan, Z., *TBME Sept. 2018 1912-1923*
- Cheng, L.K.**, see Mayne, T.P., *TBME Feb. 2018 319-326*
- Cheng, Y.**, see Tang, S., *TBME June 2018 1235-1244*
- Chenniappan, M.**, see P M, N., *TBME Nov. 2018 2392-2404*
- Cherry, E.M.**, see Ulysses, J.N., *TBME Dec. 2018 2760-2768*
- Cherukuri, V.**, Ssenyonga, P., Warf, B.C., Kulkarni, A.V., Monga, V., and Schiff, S.J., Learning Based Segmentation of CT Brain Images: Application to Postoperative Hydrocephalic Scans; *TBME Aug. 2018 1871-1884*
- Cheshkov, S.**, see Cui, J., *TBME Oct. 2018 2259-2266*
- Chetelat, O.**, see Rapin, M., *TBME Jan. 2018 113-122*
- Cheung, L.**, see Hsung, T., *TBME April 2018 828-838*
- Chiapperino, M.A.**, see Mescia, L., *TBME Feb. 2018 414-423*
- Chipperfield, A.J.**, see Kuliga, K.Z., *TBME May 2018 1049-1056*
- Chmielewski, A.**, see Crowe, L.A., *TBME Feb. 2018 294-306*
- Cho, D.**, see Qureshi, M.N.I., *TBME Oct. 2018 2168-2177*
- Cho, J.G.**, see Jung, D.W., *TBME March 2018 706-712*
- Choi, B.H.**, see Jung, D.W., *TBME March 2018 706-712*
- Choi, J.**, see Yoon, H., *TBME Dec. 2018 2847-2854*
- Choi, J.**, see Thyagaraj, S., *TBME July 2018 1516-1523*
- Choi, S.H.**, see Yoon, H., *TBME Dec. 2018 2847-2854*
- Choi, W.**, see Qureshi, M.N.I., *TBME Oct. 2018 2168-2177*
- Chong, M.**, see Hsung, T., *TBME April 2018 828-838*
- Chou, P.H.**, see Safavi, S.M., *TBME Oct. 2018 2298-2310*
- Choyke, P.**, see Chen, Y., *TBME July 2018 1434-1442*
- Christensen, C.B.**, Harte, J.M., Lunner, T., and Kidmose, P., Ear-EEG-Based Objective Hearing Threshold Estimation Evaluated on Normal Hearing Subjects; *TBME May 2018 1026-1034*
- Christodoulou, A.G.**, see Ma, S., *TBME Oct. 2018 2219-2230*
- Chung, M.K.**, see Lee, M., *TBME Oct. 2018 2323-2333*
- Cinelli, I.**, Destrade, M., Duffy, M., and McHugh, P., Electrothermal Equivalent Three-Dimensional Finite-Element Model of a Single Neuron; *TBME June 2018 1373-1381*
- Citi, L.**, see Valenza, G., *TBME May 2018 1077-1085*
- Claes, K.**, see Frohlich, H., *TBME May 2018 1133-1139*
- Clark, A.L.**, see Brown, O.I., *TBME Aug. 2018 1711-1716*
- Clark, K.**, see Akbarian, A., *TBME Feb. 2018 241-253*
- Clarke, M.**, de Folter, J., Verma, V., and Gokalp, H., Interoperable End-to-End Remote Patient Monitoring Platform Based on IEEE 11073 PHD and ZigBee Health Care Profile; *TBME May 2018 1014-1025*
- Cleary, K.**, see Stoianovici, D., *TBME Jan. 2018 165-177*
- Cleveland, R.O.**, see Suomi, V., *TBME May 2018 969-979*
- Cleveland, R.O.**, see Suomi, V., *TBME Nov. 2018 2660-2670*
- Clifford, G.D.**, see Da Poian, G., *TBME June 2018 1349-1358*
- Clifton, D.A.**, see Birenkott, D.A., *TBME Sept. 2018 2033-2041*
- Clough, G.F.**, see Kuliga, K.Z., *TBME May 2018 1049-1056*
- Cluff, K.**, Becker, R., Jayakumar, B., Han, K., Condon, E., Dudley, K., Sza-kowski, G., Pipinos, I.I., Amick, R.Z., and Patterson, J., Passive Wearable Skin Patch Sensor Measures Limb Hemodynamics Based on Electromagnetic Resonance; *TBME April 2018 847-856*
- Cobelli, C.**, see Acciaroli, G., *TBME March 2018 587-595*
- Cobelli, C.**, see Toffanin, C., *TBME March 2018 479-488*
- Cobelli, C.**, see Vettoretti, M., *TBME June 2018 1281-1290*
- Cobelli, C.**, see Schiavon, M., *TBME Sept. 2018 2079-2086*
- Cogoni, M.**, see Busonera, G., *TBME Dec. 2018 2713-2719*
- Coleman, T.P.**, see Huang, S., *TBME June 2018 1272-1280*
- Coleman, T.P.**, see Kang, D.Y., *TBME June 2018 1201-1212*
- Coll-Font, J.**, Erem, B., and Brooks, D.H., A Potential-Based Inverse Spectral Method to Noninvasively Localize Discordant Distributions of Alternans on the Heart From the ECG; *TBME July 2018 1554-1563*
- Colley, E.**, Carroll, J., Thomas, S., Varcoe, R.L., Simmons, A., and Barber, T., A Methodology for Non-Invasive 3-D Surveillance of Arteriovenous Fistulae Using Freehand Ultrasound; *TBME Aug. 2018 1885-1891*
- Colominas, M.A.**, Jomaa, M.E.S.H., Jrad, N., Humeau-Heurtier, A., and Van Bogaert, P., Time-Varying Time-Frequency Complexity Measures for Epileptic EEG Data Analysis; *TBME Aug. 2018 1681-1688*
- Condon, E.**, see Cluff, K., *TBME April 2018 847-856*
- Congedo, M.**, see Zanini, P., *TBME May 2018 1107-1116*
- Connell, R.**, see Mason, A., *TBME March 2018 698-705*
- Convert, R.**, see Chassagne, F., *TBME Feb. 2018 449-457*
- Cook, M.J.**, see Nurse, E.S., *TBME Feb. 2018 344-352*
- Cordova-Lopez, L.E.**, see Mason, A., *TBME March 2018 698-705*
- Corsini, C.**, see Pant, S., *TBME Nov. 2018 2450-2458*
- Costantini, M.**, see Frigo, A., *TBME July 2018 1476-1485*
- Cotin, S.**, see Bui, H.P., *TBME March 2018 596-607*
- Coudiere, Y.**, see Raphel, F., *TBME June 2018 1311-1319*
- Courtécuisse, H.**, see Bui, H.P., *TBME March 2018 596-607*
- Crabb, M.G.**, see Tregidgo, H.F.J., *TBME Nov. 2018 2459-2470*
- Crowe, L.**, see Bellizzi, G., *TBME July 2018 1607-1616*
- Crowe, L.A.**, Manasseh, G., Chmielewski, A., Hachulla, A., Speicher, D., Greiser, A., Muller, H., de Perrot, T., Vallee, J., and Salomir, R., Spatially Resolved MR-Compatible Doppler Ultrasound: Proof of Concept for Triggering of Diagnostic Quality Cardiovascular MRI for Function and Flow Quantification at 3T; *TBME Feb. 2018 294-306*
- Crozier, S.**, see Guo, L., *TBME Feb. 2018 282-293*
- Crozier, S.**, see Wang, Y., *TBME April 2018 911-920*
- Cui, J.**, Dimitrov, I.E., Cheshkov, S., Gu, M., Malloy, C.R., and Wright, S.M., An Adjustable-Length Dipole Using Forced-Current Excitation for 7T MR; *TBME Oct. 2018 2259-2266*
- Curtis, M.J.**, see Alwan, Y., *TBME Oct. 2018 2143-2151*
- Cvetkovic, Z.**, see Alwan, Y., *TBME Oct. 2018 2143-2151*
- Cygankiewicz, I.**, see Martin-Yebra, A., *TBME March 2018 635-644*
- Czosnyka, M.**, see Kaczmarek, K., *TBME March 2018 619-624*
- Czosnyka, Z.**, see Kaczmarek, K., *TBME March 2018 619-624*

D

- D Lima, D.**, see Geier, A., *TBME Nov. 2018 2471-2482*
- Da Poian, G.**, Rozell, C.J., Bernardini, R., Rinaldo, R., and Clifford, G.D., Matched Filtering for Heart Rate Estimation on Compressive Sensing ECG Measurements; *TBME June 2018 1349-1358*
- Dai, C.**, see Johnson, W., *TBME March 2018 678-686*
- Dai, S.**, see Yu, Z., *TBME Nov. 2018 2512-2518*
- Dalgarno, P.A.**, see Diamantis, K., *TBME Aug. 2018 1840-1851*
- Dalla Man, C.**, see Schiavon, M., *TBME Sept. 2018 2079-2086*
- Dallemagne, B.**, see Zorn, L., *TBME April 2018 797-808*
- Dambre, J.**, see Korshunova, I., *TBME March 2018 502-510*
- Damen, D.**, see Soleimani, V., *TBME June 2018 1421-1431*
- Dan, Z.**, see Yan, W., *TBME Aug. 2018 1696-1704*
- Daners, M.S.**, see Petrou, A., *TBME Oct. 2018 2355-2364*
- Danford, F.**, see Ram, S., *TBME July 2018 1617-1629*
- Dang, S.**, Chaudhury, S., Lall, B., and Roy, P.K., Tractography-Based Score for Learning Effective Connectivity From Multimodal Imaging Data Using Dynamic Bayesian Networks; *TBME May 2018 1057-1068*
- Dashtbozorg, B.**, see Zhang, J., *TBME May 2018 1151-1165*
- Dassau, E.**, see Chakrabarty, A., *TBME March 2018 575-586*
- Dassau, E.**, see Cao, Z., *TBME Aug. 2018 1859-1870*
- Dassios, G.**, Fokas, A.S., Hashemzadeh, P., and Leahy, R.M., EEG for Current With Two-Dimensional Support; *TBME Sept. 2018 2101-2108*
- Davalos, R.V.**, see Bhonsle, S., *TBME Oct. 2018 2190-2201*
- Davalos, R.V.**, see Zhao, Y., *TBME Aug. 2018 1810-1819*

- Davidson, R.J.**, see Lee, M., *TBME Oct. 2018 2323-2333*
de Barros, B.G., see Ulysses, J.N., *TBME Dec. 2018 2760-2768*
de Folter, J., see Clarke, M., *TBME May 2018 1014-1025*
de Lau, H., see Mischi, M., *TBME April 2018 875-884*
de Mathelin, M., see Zorn, L., *TBME April 2018 797-808*
De Momi, E., see Moccia, S., *TBME Nov. 2018 2649-2659*
de Perrot, T., see Crowe, L.A., *TBME Feb. 2018 294-306*
de Queiroz, R.A.B., see Ulysses, J.N., *TBME Dec. 2018 2760-2768*
De Wolf, C., see Frohlich, H., *TBME May 2018 1133-1139*
Deas Yero, D., Gilart Gonzalez, F., Van Troyen, D., and Vandebosch, G.A.E., Dielectric Properties of *Ex Vivo* Porcine Liver Tissue Characterized at Frequencies Between 5 and 500 kHz When Heated at Different Rates; *TBME Nov. 2018 2560-2568*
Debbaut, C., see Audebert, C., *TBME Oct. 2018 2311-2322*
Degrave, J., see Korshunova, I., *TBME March 2018 502-510*
Dehmollaian, M., see Yousefina, M., *TBME Nov. 2018 2542-2551*
del Campo, M., see Jacobs, D., *TBME Nov. 2018 2440-2449*
Denoux, T., see Lian, C., *TBME Jan. 2018 21-30*
Derafshi, Z., see Selner, A.N., *TBME Dec. 2018 2781-2789*
Dermol-Cerne, J., and Miklavcic, D., From Cell to Tissue Properties—Modeling Skin Electroporation With Pore and Local Transport Region Formation; *TBME Feb. 2018 458-468*
Desai, J.P., see Park, K., *TBME Jan. 2018 96-103*
Desaive, T., see Dickson, J.L., *TBME July 2018 1543-1553*
Desjardins, B., see Bernardis, E., *TBME April 2018 733-744*
Destrade, M., see Cinelli, I., *TBME June 2018 1373-1381*
DeYoung, P.N., see Kang, D.Y., *TBME June 2018 1201-1212*
Diamantis, K., Greenaway, A.H., Anderson, T., Jensen, J.A., Dalgarno, P.A., and Sboros, V., Super-Resolution Axial Localization of Ultrasound Scatter Using Multi-Focal Imaging; *TBME Aug. 2018 1840-1851*
Dickson, J.L., Stewart, K.W., Pretty, C.G., Flechet, M., Desaive, T., Penning, S., Lambermont, B.C., Benyo, B., Shaw, G.M., and Chase, J.G., Generalisability of a Virtual Trials Method for Glycaemic Control in Intensive Care; *TBME July 2018 1543-1553*
Dimitrov, I.E., see Cui, J., *TBME Oct. 2018 2259-2266*
Ding, B., see Mischi, M., *TBME April 2018 875-884*
Ding, L., see He, Z., *TBME Jan. 2018 219-223*
Dobbe, J.G.G., Strackee, S.D., and Streekstra, G.J., Minimizing the Translation Error in the Application of an Oblique Single-Cut Rotation Osteotomy: Where to Cut?; *TBME April 2018 821-827*
Dodd, J., see Soleimani, V., *TBME June 2018 1421-1431*
Dong, B., see Urban, B.E., *TBME Jan. 2018 232-238*
Dong, Q., see Zhao, Y., *TBME Sept. 2018 1975-1984*
Dong, S., see Zhao, Y., *TBME Aug. 2018 1810-1819*
Dong, S., see Luo, G., *TBME Sept. 2018 1924-1934*
Dong, W., see Huang, Z., *TBME May 2018 956-968*
Dossel, O., see Oesterlein, T.G., *TBME Oct. 2018 2334-2344*
Dougherty, E.R., see Oduola, W.O., *TBME April 2018 866-874*
Doyle, F.J., see Chakraborty, A., *TBME March 2018 575-586*
Doyle, F.J., see Cao, Z., *TBME Aug. 2018 1859-1870*
Drayna, P.M., see Rashno, A., *TBME May 2018 989-1001*
Duan, C., see Oduola, W.O., *TBME April 2018 866-874*
Duan, H., see Huang, Z., *TBME May 2018 956-968*
Dudley, K., see Cluff, K., *TBME April 2018 847-856*
Duffy, M., see Cinelli, I., *TBME June 2018 1373-1381*
Duncan, R.P., see Prateek, G.V., *TBME Oct. 2018 2152-2161*
Durandau, G., Farina, D., and Sartori, M., Robust Real-Time Musculoskeletal Modeling Driven by Electromyograms; *TBME March 2018 556-564*

E

- Earhart, G.M.**, see Prateek, G.V., *TBME Oct. 2018 2152-2161*
Ebrahimzadeh, A., see Yousefina, M., *TBME Nov. 2018 2542-2551*
Eckert, C.E., see Klassen, C., *TBME Dec. 2018 2827-2836*
Eckford, A.W., see Noel, A., *TBME Dec. 2018 2814-2826*
Elahi, M.A., see O Loughlin, D., *TBME Nov. 2018 2580-2590*
Elhilali, M., see Emmanouilidou, D., *TBME July 2018 1564-1574*
Emmanouilidou, D., McCollum, E.D., Park, D.E., and Elhilali, M., Computerized Lung Sound Screening for Pediatric Auscultation in Noisy Field Environments; *TBME July 2018 1564-1574*
Erem, B., see Coll-Font, J., *TBME July 2018 1554-1563*
Erickson, J.C., see Mayne, T.P., *TBME Feb. 2018 319-326*
Erwin, A., see Farrens, A.J., *TBME July 2018 1595-1606*
Estep, J.R., see McDuff, D.J., *TBME Aug. 2018 1725-1739*
Esterer, B., see Hollensteiner, M., *TBME Aug. 2018 1852-1858*

- Even-Chen, N.**, Stavisky, S.D., Pandarinath, C., Nuyujukian, P., Blabe, C.H., Hochberg, L.R., Henderson, J.M., and Shenoy, K.V., Feasibility of Automatic Error Detect-and-Undo System in Human Intracortical Brain-Computer Interfaces; *TBME Aug. 2018 1771-1784*

F

- Facchinetti, A.**, see Acciaroli, G., *TBME March 2018 587-595*
Facchinetti, A., see Vettoretti, M., *TBME June 2018 1281-1290*
Faes, L., see Valenza, G., *TBME May 2018 1077-1085*
Fajardo, L., see Wu, D., *TBME May 2018 1117-1123*
Falcao, A.X., see Phellan, R., *TBME July 2018 1486-1494*
Fallet, S., see Yazdani, S., *TBME April 2018 754-762*
Fan, J., Wade, J.W., Key, A.P., Warren, Z.E., and Sarkar, N., EEG-Based Affect and Workload Recognition in a Virtual Driving Environment for ASD Intervention; *TBME Jan. 2018 87-95*
Fan, W., see Wu, M., *TBME Jan. 2018 87-95*
Fan, Z., Chen, G., Wang, J., and Liao, H., Spatial Position Measurement System for Surgical Navigation Using 3-D Image Marker-Based Tracking Tools With Compact Volume; *TBME Feb. 2018 378-389*
Fang, Y., see Wang, S., *TBME Sept. 2018 2052-2057*
Farina, D., see Durandau, G., *TBME March 2018 556-564*
Farina, D., see Yoo, L., *TBME Aug. 2018 1689-1695*
Farrens, A.J., Zonnino, A., Erwin, A., O'Malley, M.K., Johnson, C.L., Ress, D., and Sergi, F., Quantitative Testing of fMRI-Compatibility of an Electrically Active Mechatronic Device for Robot-Assisted Sensorimotor Protocols; *TBME July 2018 1595-1606*
Farsiu, S., see Soltanian-Zadeh, S., *TBME Nov. 2018 2428-2439*
Fatemi, M., see Bayat, M., *TBME Oct. 2018 2237-2247*
Fatemi, M., see Kumar, V., *TBME July 2018 1468-1475*
Fei, C., Yang, Y., Guo, F., Lin, P., Chen, Q., Zhou, Q., and Sun, L., PMN-PT Single Crystal Ultrasonic Transducer With Half-Concave Geometric Design for IVUS Imaging; *TBME Sept. 2018 2087-2092*
Feng, M., see Schack, T., *TBME June 2018 1213-1225*
Feng, S., see Li, Y., *TBME April 2018 779-788*
Feng, S., see Wang, Y., *TBME Sept. 2018 1953-1963*
Feng, Y., see Wang, D., *TBME Nov. 2018 2591-2599*
Fenster, A., see Nahlawi, L., *TBME Aug. 2018 1798-1809*
Ferdowsi, S., and Abolghasemi, V., Semiblind Spectral Factorization Approach for Magnetic Resonance Spectroscopy Quantification; *TBME Aug. 2018 1717-1724*
Fernandez-Corazza, M., Turovets, S., Luu, P., Price, N., Muravchik, C.H., and Tucker, D., Skull Modeling Effects in Conductivity Estimates Using Parametric Electrical Impedance Tomography; *TBME Aug. 2018 1785-1797*
Ferri, R., see Busonera, G., *TBME Dec. 2018 2713-2719*
Feys, H., see Jaspers, E., *TBME April 2018 857-865*
Fidler, R., see Shahriari, Y., *TBME April 2018 745-753*
Fields, M., see Khan, H., *TBME Sept. 2018 2109-2118*
Finegan, B., see Patel, A.M., *TBME June 2018 1193-1200*
Fisher, J.A.N., see Huang, S., *TBME June 2018 1272-1280*
Fitzpatrick, D.C., see Giardina, C.K., *TBME Feb. 2018 327-335*
Fixler, D., see Yahav, G., *TBME Dec. 2018 2731-2741*
Flechet, M., see Dickson, J.L., *TBME July 2018 1543-1553*
Fokas, A.S., see Dassios, G., *TBME Sept. 2018 2101-2108*
Fontanella, C.G., see Frigo, A., *TBME July 2018 1476-1485*
Fontecchio, A., see Li, B., *TBME March 2018 687-697*
Foran, D.J., see Park, K., *TBME Jan. 2018 96-103*
Forkert, N.D., see Phellan, R., *TBME July 2018 1486-1494*
Foroozan, F., O'Reilly, M.A., and Hynynen, K., Microbubble Localization for Three-Dimensional Superresolution Ultrasound Imaging Using Curve Fitting and Deconvolution Methods; *TBME Dec. 2018 2692-2703*
Fox, H., see Javed, F., *TBME March 2018 669-677*
Franco, B., see Willett, F.R., *TBME Sept. 2018 2066-2078*
Franconi, N.G., see Rothfuss, M.A., *TBME Oct. 2018 2290-2297*
Frangi, A.F., see Lassila, T., *TBME July 2018 1654-1661*
Freestone, D.R., see Nurse, E.S., *TBME Feb. 2018 344-352*
Fricke, S., see Stoianovici, D., *TBME Jan. 2018 165-177*
Friedman, D., see Theeranaew, W., *TBME Feb. 2018 371-377*
Friedman, P.A., see Annoni, E.M., *TBME Feb. 2018 273-281*
Frigo, A., Costantini, M., Fontanella, C.G., Salvador, R., Merigliano, S., and Carniel, E.L., A Procedure for the Automatic Analysis of High-Resolution Manometry Data to Support the Clinical Diagnosis of Esophageal Motility Disorders; *TBME July 2018 1476-1485*
Frim, D., see Sane, A., *TBME Nov. 2018 2503-2511*

Frohlich, H., Claes, K., De Wolf, C., Van Damme, X., and Michel, A., A Machine Learning Approach to Automated Gait Analysis for the Noldus Catwalk System; *TBME May 2018 1133-1139*
Frydman, G.H., see Singh, R., *TBME Aug. 2018 1705-1710*
Fuhrer, J., see Zurbuchen, A., *TBME Feb. 2018 424-430*
Fujita, Y., Hiramoto, M., and Sato, T., PARHELLIA: Particle Filter-Based Heart Rate Estimation From Photoplethysmographic Signals During Physical Exercise; *TBME Jan. 2018 189-198*
Furst, D., see Hollensteiner, M., *TBME Aug. 2018 1852-1858*

G

Gabauer, S., see Hollensteiner, M., *TBME Aug. 2018 1852-1858*
Gaed, M., see Nahlawi, L., *TBME Aug. 2018 1798-1809*
Gaire, J., see Lee, H.C., *TBME June 2018 1245-1255*
Gallooly, A.H., see Chang, H., *TBME Feb. 2018 400-413*
Gao, H., see Zhuang, S., *TBME Jan. 2018 64-73*
Gao, M., see Qiu, W., *TBME Jan. 2018 15-20*
Gao, X., see Nakanishi, M., *TBME Jan. 2018 104-112*
Garcia-Alberola, A., see Sanroman-Junquera, M., *TBME April 2018 723-732*
Garcia-Cossio, E., see Balasubramanian, S., *TBME Dec. 2018 2790-2797*
Gavaghan, K., see Lu, P., *TBME Jan. 2018 178-188*
Geest, J.P.V., see Ram, S., *TBME July 2018 1617-1629*
Geier, A., Aschemann, H., D Lima, D., Woernle, C., and Bader, R., Force Closure Mechanism Modeling for Musculoskeletal Multibody Simulation; *TBME Nov. 2018 2471-2482*
Georgiou, P., see Herrero, P., *TBME Oct. 2018 2231-2236*
Gerbeau, J., see Raphel, F., *TBME June 2018 1311-1319*
Gerber, N., see Lu, P., *TBME Jan. 2018 178-188*
Gershanov, S., see Yahav, G., *TBME Dec. 2018 2731-2741*
Ghosh, S., see Wang, Z., *TBME July 2018 1524-1531*
Ghovanloo, M., see Lu, J., *TBME Jan. 2018 52-63*
Ghovanloo, M., see Lee, H., *TBME May 2018 1095-1106*
Giardina, C.K., Krause, E.S., Koka, K., and Fitzpatrick, D.C., Impedance Measures During in vitro Cochlear Implantation Predict Array Positioning; *TBME Feb. 2018 327-335*
Gibson, E., see Nahlawi, L., *TBME Aug. 2018 1798-1809*
Gielis, J., see Mescia, L., *TBME Feb. 2018 414-423*
Giese, D., see Thyagaraj, S., *TBME July 2018 1516-1523*
Gilart Gonzalez, F., see Deas Yero, D., *TBME Nov. 2018 2560-2568*
Gilbert, A., see Bingham, C.S., *TBME Oct. 2018 2278-2289*
Gimbel, M.L., see Rothfuss, M.A., *TBME Oct. 2018 2290-2297*
Giroux, P., see Chassagne, F., *TBME Feb. 2018 449-457*
Glavin, M., see O Loughlin, D., *TBME Nov. 2018 2580-2590*
Gokalp, H., see Clarke, M., *TBME May 2018 1014-1025*
Goldenberg-Cohen, N., see Yahav, G., *TBME Dec. 2018 2731-2741*
Goldfarb, M., see Bartlett, H.L., *TBME June 2018 1330-1338*
Gomez, J.A., see Nahlawi, L., *TBME Aug. 2018 1798-1809*
Gomez, L.J., Yucel, A.C., and Michielssen, E., The ICVSIE: A General Purpose Integral Equation Method for Bio-Electromagnetic Analysis; *TBME March 2018 565-574*
Goncalves, C., see Nahlawi, L., *TBME Aug. 2018 1798-1809*
Gondhalekar, R., see Cao, Z., *TBME Aug. 2018 1859-1870*
Gong, J., Liu, X., Liu, T., Zhou, J., Sun, G., and Tian, J., Dual Temporal and Spatial Sparse Representation for Inferring Group-Wise Brain Networks From Resting-State fMRI Dataset; *TBME May 2018 1035-1048*
Gong, Y., see Soltanian-Zadeh, S., *TBME Nov. 2018 2428-2439*
Goodwin, M.S., see Kleckner, I.R., *TBME July 2018 1460-1467*
Goto, T.K., see Hsung, T., *TBME April 2018 828-838*
Goyal, A., see Barnes, J., *TBME April 2018 921-927*
Granados, A., Low-Beer, N., Higham, J., Kneebone, R.L., and Bello, F., Real-Time Visualization and Analysis of Clinicians' Performance During Palpation in Physical Examinations; *TBME Sept. 2018 2042-2051*
Grayden, D.B., see Nurse, E.S., *TBME Feb. 2018 344-352*
Greenaway, A.H., see Diamantis, K., *TBME Aug. 2018 1840-1851*
Greene, J., see Mason, A., *TBME March 2018 698-705*
Gregory, A., see Bayat, M., *TBME Oct. 2018 2237-2247*
Gregory, A., see Kumar, V., *TBME July 2018 1468-1475*
Greiser, A., see Crowe, L.A., *TBME Feb. 2018 294-306*
Grigorovskiy, V., and Bardakjian, B.L., Low-to-High Cross-Frequency Coupling in the Electrical Rhythms as Biomarker for Hyperexcitable Neuroglial Networks of the Brain; *TBME July 2018 1504-1515*
Grill, W.M., see Lee, H., *TBME May 2018 1095-1106*
Gruppioni, E., see Paterno, L., *TBME Sept. 2018 1996-2010*
Gu, M., see Cui, J., *TBME Oct. 2018 2259-2266*

Gu, Z., see Huang, Q., *TBME Sept. 2018 2023-2032*
Guan, C., see Schack, T., *TBME June 2018 1213-1225*
Gueziri, H., McGuffin, M.J., and Laporte, C., Latency Management in Scribble-Based Interactive Segmentation of Medical Images; *TBME May 2018 1140-1150*
Guilhem, I., see MohammadRidha, T., *TBME Jan. 2018 199-206*
Guillon, J., see Raphel, F., *TBME June 2018 1311-1319*
Gulachek, N., see Meng, J., *TBME Nov. 2018 2417-2427*
Guo, D., see Lu, H., *TBME April 2018 809-820*
Guo, D., see Yu, Y., *TBME Sept. 2018 2058-2065*
Guo, F., see Fei, C., *TBME Sept. 2018 2087-2092*
Guo, G., see Zhou, Y., *TBME May 2018 1086-1094*
Guo, G., see Yu, Z., *TBME Nov. 2018 2512-2518*
Guo, L., see Wu, Y., *TBME Feb. 2018 264-272*
Guo, L., Jin, J., Liu, C., Liu, F., and Crozier, S., An Efficient Integral-Based Method for Three-Dimensional MR-EPT and the Calculation of the RF-Coil-Induced B_2 Field; *TBME Feb. 2018 282-293*
Guo, L., see Jiang, X., *TBME June 2018 1183-1192*
Guo, L., see Zhao, Y., *TBME Sept. 2018 1975-1984*
Gush, R., see Kuliga, K.Z., *TBME May 2018 1049-1056*
Guyette, J.P., see Klassen, C., *TBME Dec. 2018 2827-2836*

H

Hachulla, A., see Crowe, L.A., *TBME Feb. 2018 294-306*
Haeblerlin, A., see Zurbuchen, A., *TBME Feb. 2018 424-430*
Hahn, J., see Mukkamala, R., *TBME June 2018 1410-1420*
Hahn, J., see Kim, C., *TBME Nov. 2018 2384-2391*
Hajissa, E., Shah, A., and Patton, J.L., Visual Limit-Push Training Alters Movement Variability; *TBME Oct. 2018 2162-2167*
Hamalainen, M.S., see Pironcini, E., *TBME June 2018 1359-1372*
Han, A., see Jeong, S., *TBME Feb. 2018 431-439*
Han, G., see Cai, H., *TBME Feb. 2018 353-364*
Han, J., see Jiang, X., *TBME June 2018 1183-1192*
Han, J., see Zhao, Y., *TBME Sept. 2018 1975-1984*
Han, K., see Cluff, K., *TBME April 2018 847-856*
Han, Y., see Chen, C., *TBME March 2018 489-501*
Hannuna, S., see Soleimani, V., *TBME June 2018 1421-1431*
Harrigan, R.L., see Huo, Y., *TBME Feb. 2018 336-343*
Harris, J.L., see Klassen, C., *TBME Dec. 2018 2827-2836*
Harte, J.M., see Christensen, C.B., *TBME May 2018 1026-1034*
Hashemzadeh, P., see Dassios, G., *TBME Sept. 2018 2101-2108*
Hasson, C.J., An Interactive Simulator for Imposing Virtual Musculoskeletal Dynamics; *TBME March 2018 539-549*
Hayano, J., see Valenza, G., *TBME Oct. 2018 2345-2354*
Haynes, M., see Chen, G., *TBME March 2018 528-538*
Hazel, A.L., see Tregidgo, H.F.J., *TBME Nov. 2018 2459-2470*
He, B., New Year Message From the Editor-in-Chief; *TBME Jan. 2018 3*
He, B., TBME: A Retrospective; *TBME Dec. 2018 2673-2674*
He, B., see Hossein Hosseini, S.A., *TBME Oct. 2018 2365-2374*
He, B., see Yu, L., *TBME July 2018 1495-1503*
He, B., see Yang, T., *TBME July 2018 1662-1671*
He, B., see Meng, J., *TBME Nov. 2018 2417-2427*
He, M., see Huang, N., *TBME July 2018 1452-1459*
He, S., see Huang, Q., *TBME Sept. 2018 2023-2032*
He, X., see Wu, M., *TBME Jan. 2018 87-95*
He, Z., Lu, H., Yang, X., Zhang, L., Wu, Y., Niu, W., Ding, L., Wang, G., Tong, S., and Jia, J., Hypoperfusion Induced by Preconditioning Treadmill Training in Hyper-Early Reperfusion After Cerebral Ischemia: A Laser Speckle Imaging Study; *TBME Jan. 2018 219-223*
Hegde, A.S., see Raghu, S., *TBME Nov. 2018 2612-2621*
Helbig, M., see Bellizzi, G., *TBME July 2018 1607-1616*
Heldman, D.A., see Pulliam, C.L., *TBME Jan. 2018 159-164*
Helle, M., see Phellan, R., *TBME July 2018 1486-1494*
Henderson, J.M., see Even-Chen, N., *TBME Aug. 2018 1771-1784*
Henderson, J.M., see Willett, F.R., *TBME Sept. 2018 2066-2078*
Henriksson, M., Petrenas, A., Marozas, V., Sandberg, F., and Sormmo, L., Model-Based Assessment of f-Wave Signal Quality in Patients With Atrial Fibrillation; *TBME Nov. 2018 2600-2611*
Henry, C., see Romero-Ugalde, H.M., *TBME July 2018 1630-1638*
Hernandez, A.I., see Romero-Ugalde, H.M., *TBME July 2018 1630-1638*
Herr, H., see Stolyarov, R., *TBME April 2018 763-769*
Herrero, P., Rawson, T.M., Philip, A., Moore, L.S.P., Holmes, A.H., and Georgiou, P., Closed-Loop Control for Precision Antimicrobial Delivery: An In Silico Proof-of-Concept; *TBME Oct. 2018 2231-2236*

- Hersek, S.**, Baran Pouyan, M., Teague, C.N., Sawka, M.N., Millard-Stafford, M.L., Kogler, G.F., Wolkoff, P., and Inan, O.T., Acoustical Emission Analysis by Unsupervised Graph Mining: A Novel Biomarker of Knee Health Status; *TBME June 2018 1291-1300*
- Hetting, J.R.**, see Selner, A.N., *TBME Dec. 2018 2781-2789*
- Higham, J.**, see Granados, A., *TBME Sept. 2018 2042-2051*
- Hilton, T.**, see Jacobs, D., *TBME Nov. 2018 2440-2449*
- Hirata, H.**, see Amida, T., *TBME May 2018 1124-1132*
- Hiromoto, M.**, see Fujita, Y., *TBME Jan. 2018 189-198*
- Ho, K.C.**, see Jiao, C., *TBME Nov. 2018 2634-2648*
- Hochberg, L.R.**, see Even-Chen, N., *TBME Aug. 2018 1771-1784*
- Hochberg, L.R.**, see Willett, F.R., *TBME Sept. 2018 2066-2078*
- Hoffmann, K.**, see Moszkowski, T., *TBME March 2018 550-555*
- Hollensteiner, M.**, Furst, D., Augat, P., Esterer, B., Schrod, F., Gabauer, S., Puschel, K., and Schrepf, A., Procedure-Specific Validation of Artificial Vertebrae; *TBME Aug. 2018 1852-1858*
- Holmes, A.H.**, see Herrero, P., *TBME Oct. 2018 2231-2236*
- Hopkins, J.**, see Mason, A., *TBME March 2018 698-705*
- Hossein Hosseini, S.A.**, Sohrabpour, A., Akcakaya, M., and He, B., Electro-magnetic Brain Source Imaging by Means of a Robust Minimum Variance Beamformer; *TBME Oct. 2018 2365-2374*
- Hou, W.**, see Xia, N., *TBME July 2018 1575-1584*
- Howell, B.**, see Lee, H., *TBME May 2018 1095-1106*
- Howerton, S.**, see Ram, S., *TBME July 2018 1617-1629*
- Hoye, A.**, see Brown, O.I., *TBME Aug. 2018 1711-1716*
- Hsia, T.**, see Pant, S., *TBME Nov. 2018 2450-2458*
- Hsu, C.**, see Wang, S., *TBME Sept. 2018 2052-2057*
- Hsung, T.**, Lo, J., Chong, M., Goto, T.K., and Cheung, L., Orbit Segmentation by Surface Reconstruction With Automatic Sliced Vertex Screening; *TBME April 2018 828-838*
- Hu, S.**, see Alaa, A.M., *TBME Jan. 2018 207-218*
- Hu, W.**, Lin, D., Cao, S., Liu, J., Chen, J., Calhoun, V.D., and Wang, Y., Adaptive Sparse Multiple Canonical Correlation Analysis With Application to Imaging (Epi)Genomics Study of Schizophrenia; *TBME Feb. 2018 390-399*
- Hu, X.**, see Shahriari, Y., *TBME April 2018 745-753*
- Hu, X.**, see Zhao, Y., *TBME Sept. 2018 1975-1984*
- Huang, A.Y.**, see Zakrzewski, A.M., *TBME Nov. 2018 2405-2416*
- Huang, K.**, see Tang, S., *TBME June 2018 1235-1244*
- Huang, N.**, He, M., Shi, H., Zhao, Y., Lu, M., Zou, X., Yao, L., Jiang, H., and Xi, L., Curved-Array-Based Multispectral Photoacoustic Imaging of Human Finger Joints; *TBME July 2018 1452-1459*
- Huang, P.**, Chaney, E.J., Shelton, R.L., and Boppart, S.A., Magnetomotive Displacement of the Tympanic Membrane Using Magnetic Nanoparticles: Toward Enhancement of Sound Perception; *TBME Dec. 2018 2837-2846*
- Huang, Q.**, He, S., Wang, Q., Gu, Z., Peng, N., Li, K., Zhang, Y., Shao, M., and Li, Y., An EOG-Based Human-Machine Interface for Wheelchair Control; *TBME Sept. 2018 2023-2032*
- Huang, S.**, Fisher, J.A.N., Ye, M., Kim, Y., Ma, R., Nabili, M., Krauthamer, V., Myers, M.R., Coleman, T.P., and Welle, C.G., Epidermal Electrode Technology for Detecting Ultrasonic Perturbation of Sensory Brain Activity; *TBME June 2018 1272-1280*
- Huang, X.**, Zhang, Y., Meng, L., Qian, M., Wong, K.K.L., Abbott, D., Zheng, R., Zheng, H., and Niu, L., Identification of Ultrasonic Echo-lucent Carotid Plaques Using Discrete Fréchet Distance Between Bimodal Gamma Distributions; *TBME May 2018 949-955*
- Huang, Y.**, see Wang, K., *TBME Feb. 2018 440-448*
- Huang, Z.**, Dong, W., Duan, H., and Liu, J., A Regularized Deep Learning Approach for Clinical Risk Prediction of Acute Coronary Syndrome Using Electronic Health Records; *TBME May 2018 956-968*
- Humeau-Heurtier, A.**, see Colominas, M.A., *TBME Aug. 2018 1681-1688*
- Hunt, C.L.**, see Betthausen, J.L., *TBME April 2018 770-778*
- Huo, Y.**, Liu, J., Xu, Z., Harrigan, R.L., Assad, A., Abramson, R.G., and Landman, B.A., Robust Multicontrast MRI Spleen Segmentation for Splenomegaly Using Multi-Atlas Segmentation; *TBME Feb. 2018 336-343*
- Hwang, S.H.**, see Jung, D.W., *TBME March 2018 706-712*
- Hwang, S.H.**, see Yoon, H., *TBME Dec. 2018 2847-2854*
- Hynynen, K.**, see Foroozan, F., *TBME Dec. 2018 2692-2703*
- Imashiro, C.**, see Nakao, M., *TBME Jan. 2018 224-231*
- Inan, O.T.**, see Hersek, S., *TBME June 2018 1291-1300*
- Inan, O.T.**, see Kim, C., *TBME Nov. 2018 2384-2391*
- Inanami, O.**, see Amida, T., *TBME May 2018 1124-1132*
- Inoue, K.**, Yoshioka, M., Yagi, N., Nagami, S., and Oku, Y., Using Machine Learning and a Combination of Respiratory Flow, Laryngeal Motion, and Swallowing Sounds to Classify Safe and Unsafe Swallowing; *TBME Nov. 2018 2529-2541*
- Insana, M.**, see Bayat, M., *TBME Oct. 2018 2237-2247*
- Iqbal, A.**, Seghouane, A., and Adali, T., Shared and Subject-Specific Dictionary Learning (ShSSDL) Algorithm for Multisubject fMRI Data Analysis; *TBME Nov. 2018 2519-2528*
- Iskander, M.F.**, Seto, T.B., Perron, R.R., Lim, E., and Qazi, F., Cardio-Pulmonary Stethoscope: Clinical Validation With Heart Failure and Hemodialysis Patients; *TBME May 2018 1176-1180*

J

I

- Iaia, V.**, see Lassila, T., *TBME July 2018 1654-1661*
- Iaizzo, P.A.**, see Singal, A., *TBME Oct. 2018 2202-2209*
- Ibrahimi, M.**, see Paterno, L., *TBME Sept. 2018 1996-2010*
- Ignatenko, T.**, see Mischi, M., *TBME April 2018 875-884*
- Imani, F.**, see Nahlawi, L., *TBME Aug. 2018 1798-1809*
- Jacobs, D.**, Hilton, T., del Campo, M., Carlen, P.L., and Bardakjian, B.L., Classification of Pre-Clinical Seizure States Using Scalp EEG Cross-Frequency Coupling Features; *TBME Nov. 2018 2440-2449*
- Jaffe, A.**, see Singh, R., *TBME Aug. 2018 1705-1710*
- Janiszowski, K.**, see Siewnicka, A., *TBME Nov. 2018 2552-2559*
- Janjic, J.**, Mastik, F., Leistikow, M.D., Bosch, J.G., Springeling, G., van der Steen, A.F.W., and van Soest, G., Sparse Ultrasound Image Reconstruction From a Shape-Sensing Single-Element Forward-Looking Catheter; *TBME Oct. 2018 2210-2218*
- Jaros, J.**, see Suomi, V., *TBME May 2018 969-979*
- Jaros, J.**, see Suomi, V., *TBME Nov. 2018 2660-2670*
- Jarosiewicz, B.**, see Willett, F.R., *TBME Sept. 2018 2066-2078*
- Jaspers, E.**, Klingels, K., Simon-Martinez, C., Feys, H., Woolley, D.G., and Wenderoth, N., GriFT: A Device for Quantifying Physiological and Pathological Mirror Movements in Children; *TBME April 2018 857-865*
- Javed, F.**, Fox, H., and Armitstead, J., ResCSRf: Algorithm to Automatically Extract Cheyne-Stokes Respiration Features From Respiratory Signals; *TBME March 2018 669-677*
- Javitz, H.S.**, see Bernardis, E., *TBME April 2018 733-744*
- Jayakumar, B.**, see Cluff, K., *TBME April 2018 847-856*
- Jensen, J.A.**, see Diamantis, K., *TBME Aug. 2018 1840-1851*
- Jeong, D.**, see Jung, D.W., *TBME March 2018 706-712*
- Jeong, D.**, see Yoon, H., *TBME Dec. 2018 2847-2854*
- Jeong, S.**, Kim, S., Buonocore, J., Park, J., Welsh, C.J., Li, J., and Han, A., A Three-Dimensional Arrayed Microfluidic Blood-Brain Barrier Model With Integrated Electrical Sensor Array; *TBME Feb. 2018 431-439*
- Ji, C.**, see Li, Y., *TBME April 2018 779-788*
- Jia, D.**, Chao, J., Li, S., Zhang, H., Yan, Y., Liu, T., and Sun, Y., A Fiber Bragg Grating Sensor for Radial Artery Pulse Waveform Measurement; *TBME April 2018 839-846*
- Jia, J.**, see He, Z., *TBME Jan. 2018 219-223*
- Jiang, H.**, Yu, W., Oscari, M., and Ziaie, B., A Smart Capsule With a Hydrogel-Based pH-Triggered Release Switch for GI-Tract Site-Specific Drug Delivery; *TBME Dec. 2018 2808-2813*
- Jiang, H.**, see Huang, N., *TBME July 2018 1452-1459*
- Jiang, N.**, see Yao, L., *TBME Aug. 2018 1689-1695*
- Jiang, T.**, see Chen, R., *TBME March 2018 645-657*
- Jiang, X.**, Li, X., Lv, J., Zhao, S., Zhang, S., Zhang, W., Zhang, T., Han, J., Guo, L., and Liu, T., Temporal Dynamics Assessment of Spatial Overlap Pattern of Functional Brain Networks Reveals Novel Functional Architecture of Cerebral Cortex; *TBME June 2018 1183-1192*
- Jiang, X.**, see Zhao, Y., *TBME Sept. 2018 1975-1984*
- Jiao, C.**, Su, B., Lyons, P., Zare, A., Ho, K.C., and Skubic, M., Multiple Instance Dictionary Learning for Beat-to-Beat Heart Rate Monitoring From Ballistocardiograms; *TBME Nov. 2018 2634-2648*
- Jin, J.**, see Guo, L., *TBME Feb. 2018 282-293*
- Jin, K.**, see Zhou, M., *TBME March 2018 521-527*
- Jin, Q.**, see Yu, L., *TBME July 2018 1495-1503*
- Jin, Q.**, see Yang, T., *TBME July 2018 1662-1671*
- John, S.E.**, see Nurse, E.S., *TBME Feb. 2018 344-352*
- Johnson, C.L.**, see Farrens, A.J., *TBME July 2018 1595-1606*
- Johnson, W.**, Dai, C., Liu, J., Wang, X., Luu, D.K., Zhang, Z., Ru, C., Zhou, C., Tan, M., Pu, H., Xie, S., Peng, Y., Luo, J., and Sun, Y., A Flexure-Guided Piezo Drill for Penetrating the Zona Pellucida of Mammalian Oocytes; *TBME March 2018 678-686*
- Jomaa, M.E.S.H.**, see Colominas, M.A., *TBME Aug. 2018 1681-1688*
- Jones, E.**, see O Loughlin, D., *TBME Nov. 2018 2580-2590*

Jones, R.M., see Kleckner, I.R., *TBME July 2018 1460-1467*
Joseph, J., see P.M., N., *TBME Nov. 2018 2392-2404*
Jrad, N., see Colominas, M.A., *TBME Aug. 2018 1681-1688*
Jun, C., see Stoianovici, D., *TBME Jan. 2018 165-177*
Jung, D.W., Hwang, S.H., Cho, J.G., Choi, B.H., Baek, H.J., Lee, Y.J., Jeong, D., and Park, K.S., Real-Time Automatic Apneic Event Detection Using Nocturnal Pulse Oximetry; *TBME March 2018 706-712*
Jung, T., see Nakanishi, M., *TBME Jan. 2018 104-112*
Jung, T., see Xu, M., *TBME May 2018 1166-1175*
Junius, K., Lefeber, N., Swinnen, E., Vanderborght, B., and Lefeber, D., Metabolic Effects Induced by a Kinetically Compatible Hip Exoskeleton During STS; *TBME June 2018 1399-1409*
Jutten, C., see Zanini, P., *TBME May 2018 1107-1116*

K

Kaczmarek, K., Kasprócz, M., Uryga, A., Calviello, L., Varsos, G., Czosnyka, Z., and Czosnyka, M., Critical Closing Pressure During Controlled Increase in Intracranial Pressure—Comparison of Three Methods; *TBME March 2018 619-624*
Kaffashi, F., see Theeranaew, W., *TBME Feb. 2018 371-377*
Kaliki, R.R., see Betthausen, J.L., *TBME April 2018 770-778*
Kamali, T., and Stashuk, D.W., Electrophysiological Muscle Classification Using Multiple Instance Learning and Unsupervised Time and Spectral Domain Analysis; *TBME Nov. 2018 2494-2502*
Kanakis, M., see Petrou, A., *TBME Oct. 2018 2355-2364*
Kang, D.Y., DeYoung, P.N., Malhotra, A., Owens, R.L., and Coleman, T.P., A State Space and Density Estimation Framework for Sleep Staging in Obstructive Sleep Apnea; *TBME June 2018 1201-1212*
Kang, M.J., Shin, C.S., and Yoo, H.H., Modeling of Stretch Reflex Activation Considering Muscle Type; *TBME May 2018 980-988*
Kanold, P.O., see Kazemipour, A., *TBME Jan. 2018 74-86*
Kao, C., see Zhang, Z., *TBME April 2018 936-946*
Kapa, S., see Annoni, E.M., *TBME Feb. 2018 273-281*
Kar, S.S., and Maity, S.P., Automatic Detection of Retinal Lesions for Screening of Diabetic Retinopathy; *TBME March 2018 608-618*
Karmakar, C., see Udhayakumar, R.K., *TBME Nov. 2018 2569-2579*
Karthik, S., see P.M., N., *TBME Nov. 2018 2392-2404*
Kasprócz, M., see Kaczmarek, K., *TBME March 2018 619-624*
Kauff, D.W., see Moszkowski, T., *TBME March 2018 550-555*
Kazemipour, A., Liu, J., Solarana, K., Nagode, D.A., Kanold, P.O., Wu, M., and Babadi, B., Fast and Stable Signal Deconvolution via Compressible State-Space Models; *TBME Jan. 2018 74-86*
Keilholz, S.D., see Shakil, S., *TBME Feb. 2018 254-263*
Kenngott, H., see Moccia, S., *TBME Nov. 2018 2649-2659*
Kernen, M., see Zurbuchen, A., *TBME Feb. 2018 424-430*
Kesavadas, T., see Sankaran, N.K., *TBME Nov. 2018 2483-2493*
Key, A.P., see Fan, J., *TBME Jan. 2018 43-51*
Khademi, G., Mohammadi, H., Richter, H., and Simon, D., Optimal Mixed Tracking/Impedance Control With Application to Transfemoral Prostheses With Energy Regeneration; *TBME April 2018 894-910*
Khaleghi, A., see Bose, P., *TBME Dec. 2018 2798-2807*
Khan, H., Marcuse, L., Fields, M., Swann, K., and Yener, B., Focal Onset Seizure Prediction Using Convolutional Networks; *TBME Sept. 2018 2109-2118*
Khoshdeli, M., and Parvin, B., Feature-Based Representation Improves Color Decomposition and Nuclear Detection Using a Convolutional Neural Network; *TBME March 2018 625-634*
Kidmose, P., see Christensen, C.B., *TBME May 2018 1026-1034*
Kim, C., Carek, A.M., Inan, O.T., Mukkamala, R., and Hahn, J., Ballistocardiogram-Based Approach to Cuffless Blood Pressure Monitoring: Proof of Concept and Potential Challenges; *TBME Nov. 2018 2384-2391*
Kim, D.Y., see Lee, M., *TBME Oct. 2018 2323-2333*
Kim, J., see Song, M., *TBME April 2018 885-893*
Kim, K., see Wang, Z., *TBME July 2018 1524-1531*
Kim, S., see Jeong, S., *TBME Feb. 2018 431-439*
Kim, S.K., see Yoon, H., *TBME Dec. 2018 2847-2854*
Kim, Y., see Huang, S., *TBME June 2018 1272-1280*
Kindermans, P., see Korshunova, I., *TBME March 2018 502-510*
Kinnick, R.R., see Kumar, V., *TBME July 2018 1468-1475*
Kirsch, R.F., see Willett, F.R., *TBME Sept. 2018 2066-2078*
Kiyono, K., see Valenza, G., *TBME Oct. 2018 2345-2354*
Klassen, C., Eckert, C.E., Wong, J., Guyette, J.P., Harris, J.L., Thompson, S., Wudl, L.J., and Ott, H.C., *Ex Vivo* Modeling of Perioperative Air Leaks in Porcine Lungs; *TBME Dec. 2018 2827-2836*

+ Check author entry for coauthors

Kleckner, I.R., Jones, R.M., Wilder-Smith, O., Wormwood, J.B., Akcakaya, M., Quigley, K.S., Lord, C., and Goodwin, M.S., Simple, Transparent, and Flexible Automated Quality Assessment Procedures for Ambulatory Electrodermal Activity Data; *TBME July 2018 1460-1467*
Kleyko, D., see Wedekind, D., *TBME Oct. 2018 2248-2258*
Klingels, K., see Jaspers, E., *TBME April 2018 857-865*
Klute, G.K., see Pew, C., *TBME April 2018 789-796*
Kneebone, R.L., see Granados, A., *TBME Sept. 2018 2042-2051*
Kneist, W., see Moszkowski, T., *TBME March 2018 550-555*
Kobashigawa, J., see Ma, S., *TBME Oct. 2018 2219-2230*
Kogler, G.F., see Hersek, S., *TBME June 2018 1291-1300*
Koka, K., see Giardina, C.K., *TBME Feb. 2018 327-335*
Komarov, D.A., see Amida, T., *TBME May 2018 1124-1132*
Kondapalli, S.H., Alazzawi, Y., Malinowski, M., Timek, T., and Chakraborty, S., Multiaccess In Vivo Biotelemetry Using Sonomicrometry and M-Scan Ultrasound Imaging; *TBME Jan. 2018 149-158*
Kong, D., see Chen, R., *TBME March 2018 645-657*
Konukoglu, E., see Bernardis, E., *TBME April 2018 733-744*
Koozekanani, D.D., see Rashno, A., *TBME May 2018 989-1001*
Korf, H., see Audebert, C., *TBME Oct. 2018 2311-2322*
Korostynska, O., see Mason, A., *TBME March 2018 698-705*
Korshunova, I., Kindermans, P., Degrave, J., Verhoeven, T., Brinkmann, B.H., and Dambre, J., Towards Improved Design and Evaluation of Epileptic Seizure Predictors; *TBME March 2018 502-510*
Kortelainen, J., see Mir, H., *TBME March 2018 511-520*
Kozorovitskiy, Y., see Urban, B.E., *TBME Jan. 2018 232-238*
Krause, E.S., see Giardina, C.K., *TBME Feb. 2018 327-335*
Krauthamer, V., see Huang, S., *TBME June 2018 1272-1280*
Krempf, M., see MohammadRidha, T., *TBME Jan. 2018 199-206*
Kroger, J., see Thyagaraj, S., *TBME July 2018 1516-1523*
Kruger, M., see Afsarimanesh, N., *TBME June 2018 1264-1271*
Kruger, T.B., see Moszkowski, T., *TBME March 2018 550-555*
Kuang, D., see Zhang, B., *TBME Sept. 2018 2093-2100*
Kuang, J., see Li, Y., *TBME April 2018 779-788*
Kuliga, K.Z., Gush, R., Clough, G.F., and Chipperfield, A.J., Time-Dependent Behavior of Microvascular Blood Flow and Oxygenation: A Predictor of Functional Outcomes; *TBME May 2018 1049-1056*
Kulkarni, A.V., see Cherukuri, V., *TBME Aug. 2018 1871-1884*
Kumar, G.P., see Raghu, S., *TBME Nov. 2018 2612-2621*
Kumar, V., see Bayat, M., *TBME Oct. 2018 2237-2247*
Kumar, V., Liu, R., Kinnick, R.R., Gregory, A., Alizad, A., Belohlavek, M., and Fatemi, M., Unambiguous Identification and Visualization of an Acoustically Active Catheter by Ultrasound Imaging in Real Time: Theory, Algorithm, and Phantom Experiments; *TBME July 2018 1468-1475*
Kunzer, B.E., see Selner, A.N., *TBME Dec. 2018 2781-2789*
Kurashina, Y., see Nakao, M., *TBME Jan. 2018 224-231*
Kwon, H.B., see Yoon, H., *TBME Dec. 2018 2847-2854*

L

Laguna, P., see Martin-Yebra, A., *TBME March 2018 635-644*
Laguna, P., see Orini, M., *TBME July 2018 1443-1451*
Lai, H., see Chen, C., *TBME March 2018 489-501*
Laleman, W., see Audebert, C., *TBME Oct. 2018 2311-2322*
Lall, B., see Dang, S., *TBME May 2018 1057-1068*
Lambermont, B.C., see Dickson, J.L., *TBME July 2018 1543-1553*
Lamers, E.P., Yang, A.J., and Zelik, K.E., Feasibility of a Biomechanically-Assistive Garment to Reduce Low Back Loading During Leaning and Lifting; *TBME Aug. 2018 1674-1680*
Lamus, C., see Pironcini, E., *TBME June 2018 1359-1372*
Landman, B.A., see Huo, Y., *TBME Feb. 2018 336-343*
Laporte, C., see Gueziri, H., *TBME May 2018 1140-1150*
Larson, E., and Taulu, S., Reducing Sensor Noise in MEG and EEG Recordings Using Oversampled Temporal Projection; *TBME May 2018 1002-1013*
Lassila, T., Marco, L.Y.D., Mitolo, M., Iaia, V., Levedianos, G., Venneri, A., and Frangi, A.F., Screening for Cognitive Impairment by Model-Assisted Cerebral Blood Flow Estimation; *TBME July 2018 1654-1661*
Lauffer, S., Pugh, C.M., and Van Veen, B.D., Modeling Touch and Palpation Using Autoregressive Models; *TBME July 2018 1585-1594*
Lazzi, G., see Bingham, C.S., *TBME Oct. 2018 2278-2289*
Le Rolle, V., see Romero-Ugalde, H.M., *TBME July 2018 1630-1638*
Leahy, R.M., see Dassios, G., *TBME Sept. 2018 2101-2108*
LeBel, M., see Poursartip, B., *TBME July 2018 1532-1542*
Ledoux, E.D., Inertial Sensing for Gait Event Detection and Transfemoral Prosthesis Control Strategy; *TBME Dec. 2018 2704-2712*
Lee, B., see Qureshi, M.N.I., *TBME Oct. 2018 2168-2177*

- Lee, C., *see* Shakil, S., *TBME Feb. 2018 254-263*
- Lee, D., Yoo, J., Tak, S., and Ye, J.C., Deep Residual Learning for Accelerated MRI Using Magnitude and Phase Networks; *TBME Sept. 2018 1985-1995*
- Lee, H., Howell, B., Grill, W.M., and Ghovanloo, M., Stimulation Efficiency With Decaying Exponential Waveforms in a Wirelessly Powered Switched-Capacitor Discharge Stimulation System; *TBME May 2018 1095-1106*
- Lee, H.C., Gaire, J., Roysam, B., and Otto, K.J., Placing Sites on the Edge of Planar Silicon Microelectrodes Enhances Chronic Recording Functionality; *TBME June 2018 1245-1255*
- Lee, M., Kim, D.Y., Chung, M.K., Alexander, A.L., and Davidson, R.J., Topological Properties of the Structural Brain Network in Autism via -Neighbor Method; *TBME Oct. 2018 2323-2333*
- Lee, S., *see* Ma, S., *TBME Oct. 2018 2219-2230*
- Lee, Y.J., *see* Jung, D.W., *TBME March 2018 706-712*
- Lee, Y.J., *see* Yoon, H., *TBME Dec. 2018 2847-2854*
- Lefebvre, D., *see* Junius, K., *TBME June 2018 1399-1409*
- Lefebvre, N., *see* Junius, K., *TBME June 2018 1399-1409*
- Legner, A., *see* Zorn, L., *TBME April 2018 797-808*
- Leistikow, M.D., *see* Janjic, J., *TBME Oct. 2018 2210-2218*
- Lenis, G., *see* Oesterlein, T.G., *TBME Oct. 2018 2334-2344*
- Leuthardt, E., *see* Chen, G., *TBME March 2018 528-538*
- Levy, G., *see* Bethausser, J.L., *TBME April 2018 770-778*
- Levedianos, G., *see* Lassila, T., *TBME July 2018 1654-1661*
- Ley, S., *see* Bellizzi, G., *TBME July 2018 1607-1616*
- Lhatoo, S., *see* Theeranaew, W., *TBME Feb. 2018 371-377*
- Li, B., Shi, Y., Fontecchio, A., and Visell, Y., Mechanical Imaging of Soft Tissues With a Highly Compliant Tactile Sensing Array; *TBME March 2018 687-697*
- Li, C., *see* Chang, H., *TBME Feb. 2018 400-413*
- Li, C., *see* Zhou, Y., *TBME Sept. 2018 1935-1942*
- Li, D., *see* Ma, S., *TBME Oct. 2018 2219-2230*
- Li, D., *see* Xiao, H., *TBME June 2018 1226-1234*
- Li, H., *see* Lian, C., *TBME Jan. 2018 21-30*
- Li, J., *see* Jeong, S., *TBME Feb. 2018 431-439*
- Li, J.K., *see* Patel, A.M., *TBME June 2018 1193-1200*
- Li, K., *see* Huang, Q., *TBME Sept. 2018 2023-2032*
- Li, K., *see* Wang, D., *TBME Nov. 2018 2591-2599*
- Li, L., *see* Zhuang, S., *TBME Jan. 2018 64-73*
- Li, M., *see* Yan, W., *TBME Aug. 2018 1696-1704*
- Li, P., *see* Wu, M., *TBME Jan. 2018 87-95*
- Li, P., *see* Stoianovici, D., *TBME Jan. 2018 165-177*
- Li, S., *see* Barnes, J., *TBME April 2018 921-927*
- Li, S., *see* Jia, D., *TBME April 2018 839-846*
- Li, W., *see* Yang, C., *TBME Feb. 2018 365-370*
- Li, X., *see* Peng, J., *TBME Jan. 2018 140-148*
- Li, X., *see* Jiang, X., *TBME June 2018 1183-1192*
- Li, X.L., *see* Oduola, W.O., *TBME April 2018 866-874*
- Li, Y., *see* Peng, J., *TBME Jan. 2018 140-148*
- Li, Y., *see* Wu, D., *TBME May 2018 1117-1123*
- Li, Y., Sun, C., Kuang, J., Ji, C., Feng, S., Wu, J., and You, H., An In Vitro and Numerical Study of Moxibustion Therapy on Biological Tissue; *TBME April 2018 779-788*
- Li, Y., *see* Huang, Q., *TBME Sept. 2018 2023-2032*
- Lian, C., Ruan, S., Denoux, T., Li, H., and Vera, P., Spatial Evidential Clustering With Adaptive Distance Metric for Tumor Segmentation in FDG-PET Images; *TBME Jan. 2018 21-30*
- Lian, J., *see* Nie, D., *TBME Dec. 2018 2720-2730*
- Lian, Q., *see* Wang, Y., *TBME Sept. 2018 1953-1963*
- Liao, H., *see* Fan, Z., *TBME Feb. 2018 378-389*
- Liao, H., *see* Liu, J., *TBME Sept. 2018 1943-1952*
- Liebeskind, D., *see* Yu, Y., *TBME Sept. 2018 2058-2065*
- Lim, E., *see* Iskander, M.F., *TBME May 2018 1176-1180*
- Lim, S., *see* Stoianovici, D., *TBME Jan. 2018 165-177*
- Lin, D., *see* Hu, W., *TBME Feb. 2018 390-399*
- Lin, K., *see* Wang, Y., *TBME Sept. 2018 1953-1963*
- Lin, P., *see* Fei, C., *TBME Sept. 2018 2087-2092*
- Lin, W., *see* Zhuang, S., *TBME Jan. 2018 64-73*
- Lindner, T., *see* Phellan, R., *TBME July 2018 1486-1494*
- Linninger, A., *see* Sane, A., *TBME Nov. 2018 2503-2511*
- Lionheart, W.R.B., *see* Tregidgo, H.F.J., *TBME Nov. 2018 2459-2470*
- Liu, B.R., *see* Ulysses, J.N., *TBME Dec. 2018 2760-2768*
- Liu, C., *see* Guo, L., *TBME Feb. 2018 282-293*
- Liu, F., *see* Guo, L., *TBME Feb. 2018 282-293*
- Liu, F., *see* Wang, Y., *TBME April 2018 911-920*
- Liu, F., *see* Zhang, G., *TBME Sept. 2018 2130-2133*
- Liu, H., *see* Wu, D., *TBME May 2018 1117-1123*
- Liu, H., *see* Zhao, Y., *TBME Aug. 2018 1810-1819*
- Liu, J., *see* Kazempour, A., *TBME Jan. 2018 74-86*
- Liu, J., *see* Qiu, W., *TBME Jan. 2018 15-20*
- Liu, J., *see* Johnson, W., *TBME March 2018 678-686*
- Liu, J., *see* Hu, W., *TBME Feb. 2018 390-399*
- Liu, J., *see* Huo, Y., *TBME Feb. 2018 336-343*
- Liu, J., *see* Huang, Z., *TBME May 2018 956-968*
- Liu, J., *see* Zhang, G., *TBME Sept. 2018 2130-2133*
- Liu, J., Chen, F., Pan, C., Zhu, M., Zhang, X., Zhang, L., and Liao, H., A Cascaded Deep Convolutional Neural Network for Joint Segmentation and Genotype Prediction of Brainstem Gliomas; *TBME Sept. 2018 1943-1952*
- Liu, K.J.R., *see* Chen, C., *TBME March 2018 489-501*
- Liu, Q., Chen, S., Soetikno, B., Liu, W., Tong, S., and Zhang, H.F., Monitoring Acute Stroke in Mouse Model Using Laser Speckle Imaging-Guided Visible-Light Optical Coherence Tomography; *TBME Oct. 2018 2136-2142*
- Liu, Q., *see* Zhou, Y., *TBME Sept. 2018 1935-1942*
- Liu, R., *see* Kumar, V., *TBME July 2018 1468-1475*
- Liu, T., *see* Gong, J., *TBME May 2018 1035-1048*
- Liu, T., *see* Jia, D., *TBME April 2018 839-846*
- Liu, T., *see* Jiang, X., *TBME June 2018 1183-1192*
- Liu, T., *see* Zhao, Y., *TBME Sept. 2018 1975-1984*
- Liu, W., *see* Liu, Q., *TBME Oct. 2018 2136-2142*
- Liu, X., *see* Gong, J., *TBME May 2018 1035-1048*
- Liu, Z., *see* Zhou, Y., *TBME Sept. 2018 1935-1942*
- Lo, J., *see* Hsung, T., *TBME April 2018 828-838*
- Loewe, A., *see* Oesterlein, T.G., *TBME Oct. 2018 2334-2344*
- Loizos, K., *see* Bingham, C.S., *TBME Oct. 2018 2278-2289*
- Long, Z., *see* Zhang, C., *TBME July 2018 1639-1653*
- Loock, H., *see* Barnes, J., *TBME April 2018 921-927*
- Loparo, K.A., *see* Theeranaew, W., *TBME Feb. 2018 371-377*
- Lopour, B., *see* Safavi, S.M., *TBME Oct. 2018 2298-2310*
- Lord, C., *see* Kleckner, I.R., *TBME July 2018 1460-1467*
- Lorenzo, M.F., *see* Bhonsle, S., *TBME Oct. 2018 2190-2201*
- Loth, F., *see* Thyagaraj, S., *TBME July 2018 1516-1523*
- Lou, M., *see* Yu, Y., *TBME Sept. 2018 2058-2065*
- Louis, J., *see* Mason, A., *TBME March 2018 698-705*
- Lova, R.M., *see* Betti, S., *TBME Aug. 2018 1748-1758*
- Low-Beer, N., *see* Granados, A., *TBME Sept. 2018 2042-2051*
- Lu, F., *see* Chen, R., *TBME March 2018 645-657*
- Lu, H., *see* He, Z., *TBME Jan. 2018 219-223*
- Lu, H., Zhang, X., Qiu, T., Yang, J., Ying, J., Guo, D., Chen, Z., and Qu, X., Low Rank Enhanced Matrix Recovery of Hybrid Time and Frequency Data in Fast Magnetic Resonance Spectroscopy; *TBME April 2018 809-820*
- Lu, J., Yang, Z., Okkelberg, K.Z., and Ghovanloo, M., Joint Magnetic Calibration and Localization Based on Expectation Maximization for Tongue Tracking; *TBME Jan. 2018 52-63*
- Lu, M., *see* Huang, N., *TBME July 2018 1452-1459*
- Lu, P., Barazzetti, L., Chandran, V., Gavaghan, K., Weber, S., Gerber, N., and Reyes, M., Highly Accurate Facial Nerve Segmentation Refinement From CBCT/CT Imaging Using a Super-Resolution Classification Approach; *TBME Jan. 2018 178-188*
- Luik, A., *see* Oesterlein, T.G., *TBME Oct. 2018 2334-2344*
- Lunner, T., *see* Christensen, C.B., *TBME May 2018 1026-1034*
- Luo, G., Dong, S., Wang, K., Zuo, W., Cao, S., and Zhang, H., Multi-Views Fusion CNN for Left Ventricular Volumes Estimation on Cardiac MR Images; *TBME Sept. 2018 1924-1934*
- Luo, J., *see* Johnson, W., *TBME March 2018 678-686*
- Luo, J., *see* Zhang, G., *TBME Sept. 2018 2130-2133*
- Luo, Q., *see* Zhang, B., *TBME Sept. 2018 2093-2100*
- Luthringer, D., *see* Ma, S., *TBME Oct. 2018 2219-2230*
- Luu, D.K., *see* Johnson, W., *TBME March 2018 678-686*
- Luu, P., *see* Fernandez-Corazza, M., *TBME Aug. 2018 1785-1797*
- Lv, J., *see* Jiang, X., *TBME June 2018 1183-1192*
- Lv, Y., *see* Zhao, Y., *TBME Aug. 2018 1810-1819*
- Lyons, P., *see* Jiao, C., *TBME Nov. 2018 2634-2648*

M

- Ma, D., *see* Wang, D., *TBME Nov. 2018 2591-2599*
- Ma, Q., *see* Zhou, Y., *TBME May 2018 1086-1094*
- Ma, Q., *see* Yu, Z., *TBME Nov. 2018 2512-2518*
- Ma, R., *see* Huang, S., *TBME June 2018 1272-1280*

- Ma, S.**, Nguyen, C.T., Christodoulou, A.G., Luthringer, D., Kobashigawa, J., Lee, S., Chang, H., and Li, D., Accelerated Cardiac Diffusion Tensor Imaging Using Joint Low-Rank and Sparsity Constraints; *TBME Oct. 2018* 2219-2230
- Mabo, P.**, see Romero-Ugalde, H.M., *TBME July 2018* 1630-1638
- Madannejad, A.**, see Yousefnia, M., *TBME Nov. 2018* 2542-2551
- Magni, L.**, see Toffanin, C., *TBME March 2018* 479-488
- Mahloojifar, A.**, see Mozaffarzadeh, M., *TBME Jan. 2018* 31-42
- Maier-Hein, L.**, see Moccia, S., *TBME Nov. 2018* 2649-2659
- Maity, S.P.**, see Kar, S.S., *TBME March 2018* 608-618
- Majmudar, M.D.**, see Singh, R., *TBME Aug. 2018* 1705-1710
- Makarov, S.N.**, Noetscher, G.M., Raji, T., and Nummenmaa, A., A Quasi-Static Boundary Element Approach With Fast Multipole Acceleration for High-Resolution Bioelectromagnetic Models; *TBME Dec. 2018* 2675-2683
- Makrakis, D.**, see Noel, A., *TBME Dec. 2018* 2814-2826
- Malberg, H.**, see Wedekind, D., *TBME Oct. 2018* 2248-2258
- Maleckar, M.**, see Behdadfar, S., *TBME June 2018* 1391-1398
- Malhotra, A.**, see Kang, D.Y., *TBME June 2018* 1201-1212
- Malik, A.**, see Ai, W., *TBME Jan. 2018* 123-130
- Malik, W.Q.**, see Pironcini, E., *TBME June 2018* 1359-1372
- Malinowski, M.**, see Kondapalli, S.H., *TBME Jan. 2018* 149-158
- Malloy, C.R.**, see Cui, J., *TBME Oct. 2018* 2259-2266
- Manasseh, G.**, see Crowe, L.A., *TBME Feb. 2018* 294-306
- Manoufali, M.**, Bialkowski, K., Mohammed, B.J., Mills, P.C., and Abbosh, A., Near-Field Inductive-Coupling Link to Power a Three-Dimensional Millimeter-Size Antenna for Brain Implantable Medical Devices; *TBME Jan. 2018* 4-14
- Mao, T.**, see Xia, N., *TBME July 2018* 1575-1584
- Marco, L.Y.D.**, see Lassila, T., *TBME July 2018* 1654-1661
- Marcuse, L.**, see Khan, H., *TBME Sept. 2018* 2109-2118
- Marescaux, J.**, see Zorn, L., *TBME April 2018* 797-808
- Mari, Z.K.**, see Pulliam, C.L., *TBME Jan. 2018* 159-164
- Marioz, V.**, see Henriksson, M., *TBME Nov. 2018* 2600-2611
- Marrosu, F.**, see Busonera, G., *TBME Dec. 2018* 2713-2719
- Martin, A.**, and Voix, J., In-Ear Audio Wearable: Measurement of Heart and Breathing Rates for Health and Safety Monitoring; *TBME June 2018* 1256-1263
- Martin, B.A.**, see Thyagaraj, S., *TBME July 2018* 1516-1523
- Martin-Yebra, A.**, Monasterio, V., Cygankiewicz, I., Bayes-de-Luna, A., Ciani, E.G., Laguna, P., and Martinez, J.P., Post-Ventricular Premature Contraction Phase Correction Improves the Predictive Value of Average T-Wave Alternans in Ambulatory ECG Recordings; *TBME March 2018* 635-644
- Martinez, J.P.**, see Martin-Yebra, A., *TBME March 2018* 635-644
- Martinez, J.P.**, see Adal, K.M., *TBME June 2018* 1382-1390
- Mason, A.**, Korostynska, O., Louis, J., Cordova-Lopez, L.E., Abdullah, B., Greene, J., Connell, R., and Hopkins, J., Noninvasive *In-Situ* Measurement of Blood Lactate Using Microwave Sensors; *TBME March 2018* 698-705
- Massalin, Y.**, Abdrakhmanova, M., and Varol, H.A., User-Independent Intent Recognition for Lower Limb Prostheses Using Depth Sensing; *TBME Aug. 2018* 1759-1770
- Masters, M.R.**, see Bethausser, J.L., *TBME April 2018* 770-778
- Mastik, F.**, see Janjic, J., *TBME Oct. 2018* 2210-2218
- Matsumoto, S.**, see Amida, T., *TBME May 2018* 1124-1132
- Mattison, L.M.**, see Singal, A., *TBME Oct. 2018* 2202-2209
- Mattos, L.S.**, see Moccia, S., *TBME Nov. 2018* 2649-2659
- Mayer, B.**, see Moccia, S., *TBME Nov. 2018* 2649-2659
- Mayne, T.P.**, Paskaranandavadivel, N., Erickson, J.C., OGrady, G., Cheng, L.K., and Angeli, T.R., Improved Visualization of Gastrointestinal Slow Wave Propagation Using a Novel Wavefront-Oriented Interpolation Technique; *TBME Feb. 2018* 319-326
- McClain, L.M.**, see Nagaraj, S.B., *TBME Dec. 2018* 2684-2691
- McCullum, E.D.**, see Emmanouilidou, D., *TBME July 2018* 1564-1574
- McDonald, J.**, see Theeranaew, W., *TBME Feb. 2018* 371-377
- McDuff, D.J.**, Blackford, E.B., and Estep, J.R., Fusing Partial Camera Signals for Noncontact Pulse Rate Variability Measurement; *TBME Aug. 2018* 1725-1739
- McGuffin, M.J.**, see Gueziri, H., *TBME May 2018* 1140-1150
- McHugh, P.**, see Cinelli, I., *TBME June 2018* 1373-1381
- McLeod, K.**, Tondel, K., Calvet, L., Sermesant, M., and Pennec, X., Cardiac Motion Evolution Model for Analysis of Functional Changes Using Tensor Decomposition and Cross-Sectional Data; *TBME Dec. 2018* 2769-2780
- McMurtry, M.S.**, see Patel, A.M., *TBME June 2018* 1193-1200
- McNeely, M.E.**, see Prateek, G.V., *TBME Oct. 2018* 2152-2161
- Meboldt, M.**, see Petrou, A., *TBME Oct. 2018* 2355-2364
- Memberg, W.D.**, see Willett, F.R., *TBME Sept. 2018* 2066-2078
- Menard, F.**, see Wang, Z., *TBME July 2018* 1524-1531
- Menciassi, A.**, see Paterno, L., *TBME Sept. 2018* 1996-2010
- Meng, J.**, Streitz, T., Gulachek, N., Suma, D., and He, B., Three-Dimensional Brain-Computer Interface Control Through Simultaneous Overt Spatial Attentional and Motor Imagery Tasks; *TBME Nov. 2018* 2417-2427
- Meng, L.**, see Huang, X., *TBME May 2018* 949-955
- Mera, T.O.**, see Pulliam, C.L., *TBME Jan. 2018* 159-164
- Merigliano, S.**, see Frigo, A., *TBME July 2018* 1476-1485
- Mescia, L.**, Chiapperino, M.A., Bia, P., Gielis, J., and Caratelli, D., Modeling of Electroporation Induced by Pulsed Electric Fields in Irregularly Shaped Cells; *TBME Feb. 2018* 414-423
- Messner, E.**, Zohrer, M., and Pernkopf, F., Heart Sound Segmentation—An Event Detection Approach Using Deep Recurrent Neural Networks; *TBME Sept. 2018* 1964-1974
- Messori, M.**, see Toffanin, C., *TBME March 2018* 479-488
- Metaxas, D.**, see Bernardis, E., *TBME April 2018* 733-744
- Mi, Y.**, see Zhang, B., *TBME Sept. 2018* 2093-2100
- Michel, A.**, see Frohlich, H., *TBME May 2018* 1133-1139
- Michielssen, E.**, see Gomez, L.J., *TBME March 2018* 565-574
- Miklavcic, D.**, see Dermol-Cerne, J., *TBME Feb. 2018* 458-468
- Milioli, G.**, see Busonera, G., *TBME Dec. 2018* 2713-2719
- Millard-Stafford, M.L.**, see Hersek, S., *TBME June 2018* 1291-1300
- Miller, J.P.**, see Willett, F.R., *TBME Sept. 2018* 2066-2078
- Mills, P.C.**, see Manoufali, M., *TBME Jan. 2018* 4-14
- Min, B.**, see Qureshi, M.N.I., *TBME Oct. 2018* 2168-2177
- Ming, D.**, see Xu, M., *TBME May 2018* 1166-1175
- Minusa, S.**, Osanai, H., and Tateno, T., Micromagnetic Stimulation of the Mouse Auditory Cortex *In Vivo* Using an Implantable Solenoid System; *TBME June 2018* 1301-1310
- Mir, H.**, Al-Nashash, H., Kortelainen, J., and All, A., Novel Modeling of Somatosensory Evoked Potentials for the Assessment of Spinal Cord Injury; *TBME March 2018* 511-520
- Mirbeik-Sabzevari, A.**, Ashinoff, R., and Tavassolian, N., Ultra-Wideband Millimeter-Wave Dielectric Characteristics of Freshly Excised Normal and Malignant Human Skin Tissues; *TBME June 2018* 1320-1329
- Mircus, G.**, see Yahav, G., *TBME Dec. 2018* 2731-2741
- Mirmehdi, M.**, see Soleimani, V., *TBME June 2018* 1421-1431
- Mischi, M.**, Chen, C., Ignatenko, T., de Lau, H., Ding, B., Oei, S.G.G., and Rabotti, C., Dedicated Entropy Measures for Early Assessment of Pregnancy Progression From Single-Channel Electrohysterography; *TBME April 2018* 875-884
- Mitolo, M.**, see Lassila, T., *TBME July 2018* 1654-1661
- Moccia, S.**, Wirkert, S.J., Kenngott, H., Vemuri, A.S., Apitz, M., Mayer, B., De Momi, E., Mattos, L.S., and Maier-Hein, L., Uncertainty-Aware Organ Classification for Surgical Data Science Applications in Laparoscopy; *TBME Nov. 2018* 2649-2659
- Moghaddam, M.**, see Chen, G., *TBME March 2018* 528-538
- Mohammadi, H.**, see Khademi, G., *TBME April 2018* 894-910
- MohammadRidha, T.**, Ait-Ahmed, M., Chaillou, L., Krempf, M., Guilhem, I., Poirier, J., and Moog, C.H., Model Free iPID Control for Glycemia Regulation of Type-1 Diabetes; *TBME Jan. 2018* 199-206
- Mohammed, B.J.**, see Manoufali, M., *TBME Jan. 2018* 4-14
- Molimard, J.**, see Chassagne, F., *TBME Feb. 2018* 449-457
- Moloney, B.M.**, see O Loughlin, D., *TBME Nov. 2018* 2580-2590
- Monasterio, V.**, see Martin-Yebra, A., *TBME March 2018* 635-644
- Monbaliu, D.**, see Audebert, C., *TBME Oct. 2018* 2311-2322
- Monga, V.**, see Cherukuri, V., *TBME Aug. 2018* 1871-1884
- Moog, C.H.**, see MohammadRidha, T., *TBME Jan. 2018* 199-206
- Mooney, D.P.**, see Noh, M., *TBME Oct. 2018* 2178-2189
- Moore, L.S.P.**, see Herrero, P., *TBME Oct. 2018* 2231-2236
- Mora-Jimenez, I.**, see Sanroman-Junquera, M., *TBME April 2018* 723-732
- Moseley, B.D.**, see Theeranaew, W., *TBME Feb. 2018* 371-377
- Moszkowski, T.**, Kauff, D.W., Wegner, C., Ruff, R., Somerlik-Fuchs, K.H., Kruger, T.B., Augustyniak, P., Hoffmann, K., and Kneist, W., Extracorporeal Stimulation of Sacral Nerve Roots for Observation of Pelvic Autonomic Nerve Integrity: Description of a Novel Methodological Setup; *TBME March 2018* 550-555
- Mousavi, P.**, see Barnes, J., *TBME April 2018* 921-927
- Mousavi, P.**, see Nahlawi, L., *TBME Aug. 2018* 1798-1809
- Moussa, M.**, see Nahlawi, L., *TBME Aug. 2018* 1798-1809
- Moustakas, K.**, see Stanev, D., *TBME Feb. 2018* 307-318
- Mozaffarzadeh, M.**, Mahloojifar, A., Orooji, M., Adabi, S., and Nasiriavanaki, M., Double-Stage Delay Multiply and Sum Beamforming Algorithm: Application to Linear-Array Photoacoustic Imaging; *TBME Jan. 2018* 31-42
- Mrachacz-Kersting, N.**, see Yao, L., *TBME Aug. 2018* 1689-1695
- Mu, P.**, see Qiu, W., *TBME Jan. 2018* 15-20
- Mukhopadhyay, S.C.**, see Pirbhulal, S., *TBME Dec. 2018* 2751-2759

- Mukhopadhyay, S.C.**, see Afsarimanesh, N., *TBME June 2018 1264-1271*
- Mukkamala, R.**, and Hahn, J., Toward Ubiquitous Blood Pressure Monitoring via Pulse Transit Time: Predictions on Maximum Calibration Period and Acceptable Error Limits; *TBME June 2018 1410-1420*
- Mukkamala, R.**, see Kim, C., *TBME Nov. 2018 2384-2391*
- Muller, H.**, see Crowe, L.A., *TBME Feb. 2018 294-306*
- Mulpuru, S.K.**, see Annoni, E.M., *TBME Feb. 2018 273-281*
- Muma, M.**, see Schack, T., *TBME June 2018 1213-1225*
- Muravchik, C.H.**, see Fernandez-Corazga, M., *TBME Aug. 2018 1785-1797*
- Murphy, B.A.**, see Willett, F.R., *TBME Sept. 2018 2066-2078*
- Myers, M.R.**, see Huang, S., *TBME June 2018 1272-1280*

N

- Nabavizadeh, A.**, see Bayat, M., *TBME Oct. 2018 2237-2247*
- Nabili, M.**, see Huang, S., *TBME June 2018 1272-1280*
- Nagami, S.**, see Inoue, K., *TBME Nov. 2018 2529-2541*
- Nagaraj, S.B.**, McClain, L.M., Boyle, E.J., Zhou, D.W., Ramaswamy, S.M., Biswal, S., Akeju, O., Purdon, P.L., and Westover, M.B., Electroencephalogram Based Detection of Deep Sedation in ICU Patients Using Atomic Decomposition; *TBME Dec. 2018 2684-2691*
- Nageotte, F.**, see Zorn, L., *TBME April 2018 797-808*
- Nagode, D.A.**, see Kazemipour, A., *TBME Jan. 2018 74-86*
- Nahlawi, L.**, Goncalves, C., Imani, F., Gaed, M., Gomez, J.A., Moussa, M., Gibson, E., Fenster, A., Ward, A., Abolmaesumi, P., Shatky, H., and Mousavi, P., Stochastic Modeling of Temporal Enhanced Ultrasound: Impact of Temporal Properties on Prostate Cancer Characterization; *TBME Aug. 2018 1798-1809*
- Naish, M.D.**, see Poursartip, B., *TBME July 2018 1532-1542*
- Najia, M.A.T.**, see Singh, R., *TBME Aug. 2018 1705-1710*
- Nakanishi, M.**, Wang, Y., Chen, X., Wang, Y., Gao, X., and Jung, T., Enhancing Detection of SSVEPs for a High-Speed Brain Speller Using Task-Related Component Analysis; *TBME Jan. 2018 104-112*
- Nakao, M.**, Kurashina, Y., Imashiro, C., and Takemura, K., A Method for Collecting Single Cell Suspensions Using an Ultrasonic Pump; *TBME Jan. 2018 224-231*
- Nakaoka, R.**, see Amida, T., *TBME May 2018 1124-1132*
- Nasirivanaki, M.**, see Mozaffarzadeh, M., *TBME Jan. 2018 31-42*
- Nategh, N.**, see Akbarian, A., *TBME Feb. 2018 241-253*
- Navarro, L.**, see Behdadfar, S., *TBME June 2018 1391-1398*
- Nazari, B.**, see Rashno, A., *TBME May 2018 989-1001*
- Nehorai, A.**, see Prateek, G.V., *TBME Oct. 2018 2152-2161*
- Nei, M.**, see Theeranaew, W., *TBME Feb. 2018 371-377*
- Nguyen, C.T.**, see Ma, S., *TBME Oct. 2018 2219-2230*
- Nguyen, D.K.**, see Bou Assi, E., *TBME June 2018 1339-1348*
- Nie, D.**, Trullo, R., Lian, J., Wang, L., Petitjean, C., Ruan, S., Wang, Q., and Shen, D., Medical Image Synthesis with Deep Convolutional Adversarial Networks; *TBME Dec. 2018 2720-2730*
- Niknam, K.**, see Akbarian, A., *TBME Feb. 2018 241-253*
- Nikolaidou, T.**, see Brown, O.L., *TBME Aug. 2018 1711-1716*
- Niu, L.**, see Huang, X., *TBME May 2018 949-955*
- Niu, T.**, see Tang, S., *TBME June 2018 1235-1244*
- Niu, W.**, see He, Z., *TBME Jan. 2018 219-223*
- Noel, A.**, Makrakis, D., and Eckford, A.W., Distortion Distribution of Neural Spike Train Sequence Matching With Optogenetics; *TBME Dec. 2018 2814-2826*
- Noetscher, G.M.**, see Makarov, S.N., *TBME Dec. 2018 2675-2683*
- Noh, M.**, Mooney, D.P., and Trumper, D.L., Magnet-Assisted Hydraulic Bougienage for Correction of Long-Gap Esophageal Atresia; *TBME Oct. 2018 2178-2189*
- Noudoost, B.**, see Akbarian, A., *TBME Feb. 2018 241-253*
- Nummenmaa, A.**, see Makarov, S.N., *TBME Dec. 2018 2675-2683*
- Nurse, E.S.**, John, S.E., Freestone, D.R., Oxley, T.J., Ung, H., Berkovic, S.F., O'Brien, T.J., Cook, M.J., and Grayden, D.B., Consistency of Long-Term Subdural Electrooculography in Humans; *TBME Feb. 2018 344-352*
- Nuyujukian, P.**, see Even-Chen, N., *TBME Aug. 2018 1771-1784*

O

- O Halloran, M.**, see O Loughlin, D., *TBME Nov. 2018 2580-2590*
- O Loughlin, D.**, O Halloran, M., Moloney, B.M., Glavin, M., Jones, E., and Elahi, M.A., Microwave Breast Imaging: Clinical Advances and Remaining Challenges; *TBME Nov. 2018 2580-2590*
- O'Brien, T.J.**, see Nurse, E.S., *TBME Feb. 2018 344-352*

- O'Malley, M.K.**, see Farrens, A.J., *TBME July 2018 1595-1606*
- O'Reilly, M.A.**, see Foroozan, F., *TBME Dec. 2018 2692-2703*
- Obregon-Henao, G.**, see Pirondini, E., *TBME June 2018 1359-1372*
- Odland, H.H.**, see Behdadfar, S., *TBME June 2018 1391-1398*
- Oduola, W.O.**, Li, X.L., Duan, C., Qian, L., and Dougherty, E.R., Sequential Therapeutic Response Modeling for Tumor Treatment Using Computational Hybrid Control Systems Approach; *TBME April 2018 866-874*
- Oei, S.G.G.**, see Mischi, M., *TBME April 2018 875-884*
- Oesterlein, T.G.**, Loewe, A., Lenis, G., Luik, A., Schmitt, C., and Dossel, O., Automatic Identification of Reentry Mechanisms and Critical Sites During Atrial Tachycardia by Analyzing Areas of Activity; *TBME Oct. 2018 2334-2344*
- OGrady, G.**, see Mayne, T.P., *TBME Feb. 2018 319-326*
- Oh, S.M.**, see Yoon, H., *TBME Dec. 2018 2847-2854*
- Okkelberg, K.Z.**, see Lu, J., *TBME Jan. 2018 52-63*
- Oku, Y.**, see Inoue, K., *TBME Nov. 2018 2529-2541*
- Orini, M.**, see Valenza, G., *TBME May 2018 1077-1085*
- Orini, M.**, Pueyo, E., Laguna, P., and Bailon, R., A Time-Varying Nonparametric Methodology for Assessing Changes in QT Variability Unrelated to Heart Rate Variability; *TBME July 2018 1443-1451*
- Orooji, M.**, see Mozaffarzadeh, M., *TBME Jan. 2018 31-42*
- Osana, H.**, see Minusa, S., *TBME June 2018 1301-1310*
- Osborn, L.E.**, see Betthausen, J.L., *TBME April 2018 770-778*
- Oscari, M.**, see Jiang, H., *TBME Dec. 2018 2808-2813*
- Osipov, E.**, see Wedekind, D., *TBME Oct. 2018 2248-2258*
- Ott, H.C.**, see Klassen, C., *TBME Dec. 2018 2827-2836*
- Otto, K.J.**, see Lee, H.C., *TBME June 2018 1245-1255*
- Ou, Y.**, see Bernardis, E., *TBME April 2018 733-744*
- Owens, R.L.**, see Kang, D.Y., *TBME June 2018 1201-1212*
- Oxley, T.J.**, see Nurse, E.S., *TBME Feb. 2018 344-352*

P

- P M, N.**, Joseph, J., Karthik, S., Sivaprakasam, M., and Chenniappan, M., Bi-Modal Arterial Compliance Probe for Calibration-Free Cuffless Blood Pressure Estimation; *TBME Nov. 2018 2392-2404*
- Paganelli, C.**, see Seregini, M., *TBME Jan. 2018 131-139*
- Pahlavian, S.H.**, see Thyagaraj, S., *TBME July 2018 1516-1523*
- Pai, D.K.**, see Wei, Q., *TBME Feb. 2018 469-476*
- Palaniswami, M.**, see Udhayakumar, R.K., *TBME Nov. 2018 2569-2579*
- Palma, F.D.**, see Toffanin, C., *TBME March 2018 479-488*
- Pan, C.**, see Liu, J., *TBME Sept. 2018 1943-1952*
- Pan, G.**, see Wang, Y., *TBME Sept. 2018 1953-1963*
- Pan, X.**, see Zhang, Z., *TBME April 2018 936-946*
- Pandarinath, C.**, see Even-Chen, N., *TBME Aug. 2018 1771-1784*
- Pandarinath, C.**, see Willett, F.R., *TBME Sept. 2018 2066-2078*
- Pant, S.**, Corsini, C., Baker, C., Hsia, T., Pennati, G., and Vignon-Clementel, I.E., A Lumped Parameter Model to Study Atrioventricular Valve Regurgitation in Stage 1 and Changes Across Stage 2 Surgery in Single Ventricle Patients; *TBME Nov. 2018 2450-2458*
- Parhi, K.K.**, see Rashno, A., *TBME May 2018 989-1001*
- Park, D.E.**, see Emmanouilidou, D., *TBME July 2018 1564-1574*
- Park, H.**, see Wu, M., *TBME Jan. 2018 87-95*
- Park, H.**, see Qureshi, M.N.I., *TBME Oct. 2018 2168-2177*
- Park, J.**, see Jeong, S., *TBME Feb. 2018 431-439*
- Park, K.**, Chen, W., Chekmareva, M.A., Foran, D.J., and Desai, J.P., Electromechanical Coupling Factor of Breast Tissue as a Biomarker for Breast Cancer; *TBME Jan. 2018 96-103*
- Park, K.S.**, see Jung, D.W., *TBME March 2018 706-712*
- Park, K.S.**, see Yoon, H., *TBME Dec. 2018 2847-2854*
- Parker, B.**, see Wang, Z., *TBME July 2018 1524-1531*
- Parrino, L.**, see Busonera, G., *TBME Dec. 2018 2713-2719*
- Parsa, M.**, see Akbarian, A., *TBME Feb. 2018 241-253*
- Parvin, B.**, see Khoshdeli, M., *TBME March 2018 625-634*
- Paskaranandavadivel, N.**, see Mayne, T.P., *TBME Feb. 2018 319-326*
- Patel, A.M.**, Li, J.K., Finegan, B., and McMurtry, M.S., Aortic Pressure Estimation Using Blind Identification Approach on Single Input Multiple Output Nonlinear Wiener Systems; *TBME June 2018 1193-1200*
- Patel, N.D.**, see Ai, W., *TBME Jan. 2018 123-130*
- Patel, R.V.**, see Poursartip, B., *TBME July 2018 1532-1542*
- Paterno, L.**, Ibrahim, M., Gruppioni, E., Menciassi, A., and Ricotti, L., Sockets for Limb Prostheses: A Review of Existing Technologies and Open Challenges; *TBME Sept. 2018 1996-2010*
- Patterson, J.**, see Cluff, K., *TBME April 2018 847-856*
- Patton, J.L.**, see Hajissa, E., *TBME Oct. 2018 2162-2167*

Pau, H.W., see Sriperumbudur, K.K., *TBME March 2018 658-668*
Peeters, G., see Audebert, C., *TBME Oct. 2018 2311-2322*
Pelter, M.M., see Shahriari, Y., *TBME April 2018 745-753*
Peng, J., Peng, X., Tang, H., Li, X., Chen, R., Li, Y., Wang, T., Chen, S., Shung, K.K., and Zhou, Q., Fabrication and Performance of a Miniaturized and Integrated Endoscope Ultrasound Convex Array for Digestive Tract Imaging; *TBME Jan. 2018 140-148*
Peng, N., see Huang, Q., *TBME Sept. 2018 2023-2032*
Peng, X., see Peng, J., *TBME Jan. 2018 140-148*
Peng, Y., see Johnson, W., *TBME March 2018 678-686*
Pennati, G., see Pant, S., *TBME Nov. 2018 2450-2458*
Pennec, X., see McLeod, K., *TBME Dec. 2018 2769-2780*
Penning, S., see Dickson, J.L., *TBME July 2018 1543-1553*
Pergantis, P., see Petrou, A., *TBME Oct. 2018 2355-2364*
Perkins, A.E., see Zhang, Z., *TBME April 2018 936-946*
Pernkopf, F., see Messner, E., *TBME Sept. 2018 1964-1974*
Perrella, A., see Sorelli, M., *TBME Dec. 2018 2742-2750*
Perron, R.R., see Iskander, M.F., *TBME May 2018 1176-1180*
Petitjean, C., see Nie, D., *TBME Dec. 2018 2720-2730*
Petrenas, A., see Henriksson, M., *TBME Nov. 2018 2600-2611*
Petrisor, D., see Stoianovici, D., *TBME Jan. 2018 165-177*
Petrou, A., Kanakis, M., Boes, S., Pergantis, P., Meboldt, M., and Daners, M.S., Viscosity Prediction in a Physiologically Controlled Ventricular Assist Device; *TBME Oct. 2018 2355-2364*
Pew, C., and Klute, G.K., Turn Intent Detection For Control of a Lower Limb Prosthesis; *TBME April 2018 789-796*
Pfenniger, A., see Zurbuchen, A., *TBME Feb. 2018 424-430*
Pham, T.D., and Yan, H., Tensor Decomposition of Gait Dynamics in Parkinson's Disease; *TBME Aug. 2018 1820-1827*
Phellan, R., Lindner, T., Helle, M., Falcao, A.X., and Forkert, N.D., Automatic Temporal Segmentation of Vessels of the Brain Using 4D ASL MRA Images; *TBME July 2018 1486-1494*
Philip, A., see Herrero, P., *TBME Oct. 2018 2231-2236*
Philipp Heimsch, P., see Zurbuchen, A., *TBME Feb. 2018 424-430*
Pimentel, M.A., see Birrenkott, D.A., *TBME Sept. 2018 2033-2041*
Pinto, P.A., see Chen, Y., *TBME July 2018 1434-1442*
Pipinos, I.I., see Cluff, K., *TBME April 2018 847-856*
Pirbhulal, S., Zhang, H., Wu, W., Mukhopadhyay, S.C., and Zhang, Y., Heartbeats Based Biometric Random Binary Sequences Generation to Secure Wireless Body Sensor Networks; *TBME Dec. 2018 2751-2759*
Pirondini, E., Babadi, B., Oregon-Henao, G., Lamus, C., Malik, W.Q., Hamalainen, M.S., and Purdon, P.L., Computationally Efficient Algorithms for Sparse, Dynamic Solutions to the EEG Source Localization Problem; *TBME June 2018 1359-1372*
Pluim, J.P.W., see Zhang, J., *TBME May 2018 1151-1165*
Pohl, K.M., see Bernardis, E., *TBME April 2018 733-744*
Poirier, J., see MohammadRidha, T., *TBME Jan. 2018 199-206*
Poursartip, B., LeBel, M., Patel, R.V., Naish, M.D., and Trejos, A.L., Analysis of Energy-Based Metrics for Laparoscopic Skills Assessment; *TBME July 2018 1532-1542*
Prateek, G.V., Skog, I., McNeely, M.E., Duncan, R.P., Earhart, G.M., and Nehorai, A., Modeling, Detecting, and Tracking Freezing of Gait in Parkinson Disease Using Inertial Sensors; *TBME Oct. 2018 2152-2161*
Pretty, C.G., see Dickson, J.L., *TBME July 2018 1543-1553*
Price, N., see Fernandez-Corazza, M., *TBME Aug. 2018 1785-1797*
Pu, H., see Johnson, W., *TBME March 2018 678-686*
Pueyo, E., see Orini, M., *TBME July 2018 1443-1451*
Pugh, C.M., see Laufer, S., *TBME July 2018 1585-1594*
Puligheddu, M., see Busonera, G., *TBME Dec. 2018 2713-2719*
Pulliam, C.L., Heldman, D.A., Brokaw, E.B., Mera, T.O., Mari, Z.K., and Burack, M.A., Continuous Assessment of Levodopa Response in Parkinson's Disease Using Wearable Motion Sensors; *TBME Jan. 2018 159-164*
Purdon, P.L., see Nagaraj, S.B., *TBME Dec. 2018 2684-2691*
Purdon, P.L., see Pirondini, E., *TBME June 2018 1359-1372*
Puschel, K., see Hollensteiner, M., *TBME Aug. 2018 1852-1858*

Q

Qasem, A., see Xiao, H., *TBME June 2018 1226-1234*
Qazi, F., see Iskander, M.F., *TBME May 2018 1176-1180*
Qi, H., see Xu, M., *TBME May 2018 1166-1175*
Qi, Y., see Wang, Y., *TBME Sept. 2018 1953-1963*
Qian, D., see Zhou, M., *TBME March 2018 521-527*
Qian, L., see Oduola, W.O., *TBME April 2018 866-874*
Qian, M., see Huang, X., *TBME May 2018 949-955*
Qiu, J., see Zhuang, S., *TBME Jan. 2018 64-73*

Qiu, T., see Lu, H., *TBME April 2018 809-820*
Qiu, W., Xia, J., Shi, Y., Mu, P., Wang, X., Gao, M., Wang, C., Xiao, Y., Yang, G., Liu, J., Sun, L., and Zheng, H., A Delayed-Excitation Data Acquisition Method for High-Frequency Ultrasound Imaging; *TBME Jan. 2018 15-20*
Qu, X., see Lu, H., *TBME April 2018 809-820*
Quigley, K.S., see Kleckner, I.R., *TBME July 2018 1460-1467*
Qureshi, M.N.I., Min, B., Park, H., Cho, D., Choi, W., and Lee, B., Multiclass Classification of Word Imagination Speech With Hybrid Connectivity Features; *TBME Oct. 2018 2168-2177*

R

Rabbani, H., see Rashno, A., *TBME May 2018 989-1001*
Rabotti, C., see Mischi, M., *TBME April 2018 875-884*
Raghu, S., Sraam, N., Kumar, G.P., and Hegde, A.S., A Novel Approach for Real-Time Recognition of Epileptic Seizures Using Minimum Variance Modified Fuzzy Entropy; *TBME Nov. 2018 2612-2621*
Raij, T., see Makarov, S.N., *TBME Dec. 2018 2675-2683*
Ram, S., Danford, F., Howerton, S., Rodriguez, J.J., and Geest, J.P.V., Three-Dimensional Segmentation of the *Ex-Vivo* Anterior Lamina Cribrosa From Second-Harmonic Imaging Microscopy; *TBME July 2018 1617-1629*
Ramaswamy, S.M., see Nagaraj, S.B., *TBME Dec. 2018 2684-2691*
Ramos-Murguialday, A., see Balasubramanian, S., *TBME Dec. 2018 2790-2797*
Raphel, F., Boulakia, M., Zenzemi, N., Coudiere, Y., Guillon, J., Zitoun, P., and Gerbeau, J., Identification of Ion Currents Components Generating Field Potential Recorded in MEA From hiPSC-CM; *TBME June 2018 1311-1319*
Rapin, M., Wacker, J., and Chetelat, O., Two-Wire Bus Combining Full Duplex Body-Sensor Network and Multilead Biopotential Measurements; *TBME Jan. 2018 113-122*
Rashno, A., Koozekanani, D.D., Drayna, P.M., Nazari, B., Sadri, S., Rabbani, H., and Parhi, K.K., Fully Automated Segmentation of Fluid/Cyst Regions in Optical Coherence Tomography Images With Diabetic Macular Edema Using Neutrosophic Sets and Graph Algorithms; *TBME May 2018 989-1001*
Rawson, T.M., see Herrero, P., *TBME Oct. 2018 2231-2236*
Ren, D., see Wang, D., *TBME Nov. 2018 2591-2599*
Ress, D., see Farrens, A.J., *TBME July 2018 1595-1606*
Reyes, M., see Lu, P., *TBME Jan. 2018 178-188*
Riboldi, M., see Seregini, M., *TBME Jan. 2018 131-139*
Richter, C., see Xia, N., *TBME July 2018 1575-1584*
Richter, H., see Khademi, G., *TBME April 2018 894-910*
Ricotti, L., see Paterno, L., *TBME Sept. 2018 1996-2010*
Rihana, S., see Bou Assi, E., *TBME June 2018 1339-1348*
Rinaldo, R., see Da Poian, G., *TBME June 2018 1349-1358*
Rocha, B.M., see Ulysses, J.N., *TBME Dec. 2018 2760-2768*
Rodriguez, J.J., see Ram, S., *TBME July 2018 1617-1629*
Rojo-Alvarez, J.L., see Sanroman-Junquera, M., *TBME April 2018 723-732*
Romeny, B.M.t.H., see Zhang, J., *TBME May 2018 1151-1165*
Romero-Ugalde, H.M., Le Rolle, V., Bonnet, J., Henry, C., Mabo, P., Carrault, G., and Hernandez, A.I., Closed-Loop Vagus Nerve Stimulation Based on State Transition Models; *TBME July 2018 1630-1638*
Roop, P.S., see Ai, W., *TBME Jan. 2018 123-130*
Rose, S., see Zhang, Z., *TBME April 2018 936-946*
Ross, S., see Behdadfar, S., *TBME June 2018 1391-1398*
Rothfuss, M.A., Franconi, N.G., Star, A., Akcakaya, M., Gimbel, M.L., and Sejdic, E., Automatic Early-Onset Free Flap Failure Detection for Implantable Biomedical Devices; *TBME Oct. 2018 2290-2297*
Rouwen, K.W., see Adal, K.M., *TBME June 2018 1382-1390*
Rovini, E., see Betti, S., *TBME Aug. 2018 1748-1758*
Roy, P.K., see Dang, S., *TBME May 2018 1057-1068*
Rosam, B., see Lee, H.C., *TBME June 2018 1245-1255*
Rozell, C.J., see Da Poian, G., *TBME June 2018 1349-1358*
Ru, C., see Johnson, W., *TBME March 2018 678-686*
Ruan, S., see Lian, C., *TBME Jan. 2018 21-30*
Ruan, S., see Nie, D., *TBME Dec. 2018 2720-2730*
Ruff, R., see Moszkowski, T., *TBME March 2018 550-555*
Ry, S.D., see Betti, S., *TBME Aug. 2018 1748-1758*
Ryvlin, P., see Theeranaew, W., *TBME Feb. 2018 371-377*

S

Saab, J., see Willett, F.R., *TBME Sept. 2018 2066-2078*
Sachs, J., see Bellizzi, G., *TBME July 2018 1607-1616*

- Sadri, S.**, see Rashno, A., *TBME May 2018 989-1001*
- Safaai-Jazi, A.**, see Bhonsle, S., *TBME Oct. 2018 2190-2201*
- Safaai-Jazi, A.**, see Zhao, Y., *TBME Aug. 2018 1810-1819*
- Safavi, S.M.**, Lopour, B., and Chou, P.H., Reducing the Computational Complexity of EEG Source Localization With Cortical Patch Decomposition and Optimal Electrode Selection; *TBME Oct. 2018 2298-2310*
- Said, S.**, see Zanini, P., *TBME May 2018 1107-1116*
- Salcic, Z.**, see Shaikh, M.F., *TBME Aug. 2018 1740-1747*
- Salmon-Divon, M.**, see Yahav, G., *TBME Dec. 2018 2731-2741*
- Salomir, R.**, see Crowe, L.A., *TBME Feb. 2018 294-306*
- Salvador, R.**, see Frigo, A., *TBME July 2018 1476-1485*
- Samanipour, R.**, see Wang, Z., *TBME July 2018 1524-1531*
- Sandberg, F.**, see Henriksson, M., *TBME Nov. 2018 2600-2611*
- Sane, A.**, Tangen, K., Frim, D., Singh, M.R., and Linninger, A., Cellular Obstruction Clearance in Proximal Ventricular Catheters Using Low-Voltage Joule Heating; *TBME Nov. 2018 2503-2511*
- Sankaran, N.K.**, Chembrammal, P., Siddiqui, A., Snyder, K., and Kesavadas, T., Design and Development of Surgeon Augmented Endovascular Robotic System; *TBME Nov. 2018 2483-2493*
- Sano, M.B.**, Volotskova, O., and Xing, L., Treatment of Cancer In Vitro Using Radiation and High-Frequency Bursts of Submicrosecond Electrical Pulses; *TBME April 2018 928-935*
- Sanroman-Junquera, M.**, Mora-Jimenez, I., Garcia-Alberola, A., Caamano, A.J., Trenor, B., and Rojo-Alvarez, J.L., Arrhythmia Mechanism and Scaling Effect on the Spectral Properties of Electroanatomical Maps With Manifold Harmonics; *TBME April 2018 723-732*
- Santarelli, L.**, see Betti, S., *TBME Aug. 2018 1748-1758*
- Santos, R.W.d.**, see Ulysses, J.N., *TBME Dec. 2018 2760-2768*
- Sarkar, N.**, see Fan, J., *TBME Jan. 2018 43-51*
- Sartori, M.**, see Durandau, G., *TBME March 2018 556-564*
- Sass, L.R.**, see Thyagaraj, S., *TBME July 2018 1516-1523*
- Sato, T.**, see Fujita, Y., *TBME Jan. 2018 189-198*
- Sawan, M.**, see Bou Assi, E., *TBME June 2018 1339-1348*
- Sawka, M.N.**, see Hersek, S., *TBME June 2018 1291-1300*
- Sboros, V.**, see Diamantis, K., *TBME Aug. 2018 1840-1851*
- Scalzo, F.**, see Yu, Y., *TBME Sept. 2018 2058-2065*
- Schack, T.**, Muma, M., Feng, M., Guan, C., and Zoubir, A.M., Robust Nonlinear Causality Analysis of Nonstationary Multivariate Physiological Time Series; *TBME June 2018 1213-1225*
- Schiavon, M.**, Dalla Man, C., and Cobelli, C., Modeling Subcutaneous Absorption of Fast-Acting Insulin in Type 1 Diabetes; *TBME Sept. 2018 2079-2086*
- Schiff, S.J.**, see Cherukuri, V., *TBME Aug. 2018 1871-1884*
- Schmidt, C.**, and van Rienen, U., Adaptive Estimation of the Neural Activation Extent in Computational Volume Conductor Models of Deep Brain Stimulation; *TBME Aug. 2018 1828-1839*
- Schmitt, C.**, see Oesterlein, T.G., *TBME Oct. 2018 2334-2344*
- Schouten, J.**, see Zhang, J., *TBME May 2018 1151-1165*
- Schrempf, A.**, see Hollensteiner, M., *TBME Aug. 2018 1852-1858*
- Schrodl, F.**, see Hollensteiner, M., *TBME Aug. 2018 1852-1858*
- Schuele, S.**, see Theeranaew, W., *TBME Feb. 2018 371-377*
- Segers, P.**, see Audebert, C., *TBME Oct. 2018 2311-2322*
- Seghouane, A.**, see Iqbal, A., *TBME Nov. 2018 2519-2528*
- Seifabadi, R.**, see Chen, Y., *TBME July 2018 1434-1442*
- Sejdic, E.**, see Rothfuss, M.A., *TBME Oct. 2018 2290-2297*
- Selner, A.N.**, Derafshi, Z., Kunzer, B.E., and Hetling, J.R., Three-Dimensional Model of Electroretinogram Field Potentials in the Rat Eye; *TBME Dec. 2018 2781-2789*
- Seregini, M.**, Paganelli, C., Summers, P., Bellomi, M., Baroni, G., and Riboldi, M., A Hybrid Image Registration and Matching Framework for Real-Time Motion Tracking in MRI-Guided Radiotherapy; *TBME Jan. 2018 131-139*
- Sergi, F.**, see Farrens, A.J., *TBME July 2018 1595-1606*
- Sermesant, M.**, see McLeod, K., *TBME Dec. 2018 2769-2780*
- Seto, T.B.**, see Iskander, M.F., *TBME May 2018 1176-1180*
- Shah, A.**, see Hajjissa, E., *TBME Oct. 2018 2162-2167*
- Shahriari, Y.**, Fidler, R., Pelter, M.M., Bai, Y., Villaroman, A., and Hu, X., Electrocardiogram Signal Quality Assessment Based on Structural Image Similarity Metric; *TBME April 2018 745-753*
- Shaikh, M.F.**, Salcic, Z., and Wang, K.I., A Novel Accelerometer-Based Technique for Robust Detection of Walking Direction; *TBME Aug. 2018 1740-1747*
- Shakil, S.**, Billings, J.C., Keilholz, S.D., and Lee, C., Parametric Dependencies of Sliding Window Correlation; *TBME Feb. 2018 254-263*
- Shao, M.**, see Huang, Q., *TBME Sept. 2018 2023-2032*
- Sharma, K.**, see Stoianovici, D., *TBME Jan. 2018 165-177*
- Sharp, C.**, see Soleimani, V., *TBME June 2018 1421-1431*
- Shatkay, H.**, see Nahlawi, L., *TBME Aug. 2018 1798-1809*
- Shaw, G.M.**, see Dickson, J.L., *TBME July 2018 1543-1553*
- Shelton, R.L.**, see Huang, P., *TBME Dec. 2018 2837-2846*
- Shen, D.**, see Nie, D., *TBME Dec. 2018 2720-2730*
- Shen, D.**, and Wang, L., Guest Editorial Special Issue on Deep Learning in Medical Imaging; *TBME Sept. 2018 1898-1899*
- Shen, D.**, see Cao, X., *TBME Sept. 2018 1900-1911*
- Sheng, X.**, see Yao, L., *TBME Aug. 2018 1689-1695*
- Shenoy, K.V.**, see Even-Chen, N., *TBME Aug. 2018 1771-1784*
- Shenoy, K.V.**, see Willett, F.R., *TBME Sept. 2018 2066-2078*
- Shi, H.**, see Huang, N., *TBME July 2018 1452-1459*
- Shi, Y.**, see Qiu, W., *TBME Jan. 2018 15-20*
- Shi, Y.**, see Li, B., *TBME March 2018 687-697*
- Shi, Y.**, see Zhang, J., *TBME May 2018 1151-1165*
- Shin, C.S.**, see Kang, M.J., *TBME May 2018 980-988*
- Shirbani, F.**, see Butlin, M., *TBME Nov. 2018 2377-2383*
- Shung, K.K.**, see Peng, J., *TBME Jan. 2018 140-148*
- Siddiqui, A.**, see Sankaran, N.K., *TBME Nov. 2018 2483-2493*
- Sidky, E.Y.**, see Zhang, Z., *TBME April 2018 936-946*
- Siewnicka, A.**, and Janiszowski, K., A Model for Estimating the Blood Flow of the POLVAD Pulsatile Ventricular Assist Device; *TBME Nov. 2018 2552-2559*
- Simeral, J.D.**, see Willett, F.R., *TBME Sept. 2018 2066-2078*
- Simmons, A.**, see Colley, E., *TBME Aug. 2018 1885-1891*
- Simon, D.**, see Khademi, G., *TBME April 2018 894-910*
- Simon-Martinez, C.**, see Jaspers, E., *TBME April 2018 857-865*
- Singal, A.**, Mattison, L.M., Soule, C.L., and Iazzo, P.A., Effects of Ablation (Radio Frequency, Cryo, Microwave) on Physiologic Properties of the Human Vastus Lateralis; *TBME Oct. 2018 2202-2209*
- Singh, M.R.**, see Sane, A., *TBME Nov. 2018 2503-2511*
- Singh, R.**, Jaffe, A., Frydman, G.H., Najia, M.A.T., Wei, Z., Yang, J., and Majmudar, M.D., Noninvasive Assessment of Jugular Venous Pressure via Force-Coupled Single Crystal Ultrasound; *TBME Aug. 2018 1705-1710*
- Sivaprakasam, M.**, see P M, N., *TBME Nov. 2018 2392-2404*
- Skog, I.**, see Prateek, G.V., *TBME Oct. 2018 2152-2161*
- Skubic, M.**, see Jiao, C., *TBME Nov. 2018 2634-2648*
- Smith, P.E.S.**, see Wang, K., *TBME Feb. 2018 440-448*
- Snyder, K.**, see Sankaran, N.K., *TBME Nov. 2018 2483-2493*
- So, E.**, see Theeranaew, W., *TBME Feb. 2018 371-377*
- Soetikno, B.**, see Liu, Q., *TBME Oct. 2018 2136-2142*
- Sorhabpour, A.**, see Hossein Hosseini, S.A., *TBME Oct. 2018 2365-2374*
- Solarana, K.**, see Kazemipour, A., *TBME Jan. 2018 74-86*
- Soleimani, V.**, Mirmehdi, M., Damen, D., Camplani, M., Hannuna, S., Sharp, C., and Dodd, J., Depth-Based Whole Body Photoplethysmography in Remote Pulmonary Function Testing; *TBME June 2018 1421-1431*
- Soltanian-Zadeh, S.**, Gong, Y., and Farsiu, S., Information-Theoretic Approach and Fundamental Limits of Resolving Two Closely Timed Neuronal Spikes in Mouse Brain Calcium Imaging; *TBME Nov. 2018 2428-2439*
- Somerlik-Fuchs, K.H.**, see Moszkowski, T., *TBME March 2018 550-555*
- Song, D.**, see Bingham, C.S., *TBME Oct. 2018 2278-2289*
- Song, G.**, see Zhang, B., *TBME Sept. 2018 2093-2100*
- Song, M.**, and Kim, J., An Ambulatory Gait Monitoring System with Activity Classification and Gait Parameter Calculation Based on a Single Foot Inertial Sensor; *TBME April 2018 885-893*
- Song, S.**, see Zhang, C., *TBME July 2018 1639-1653*
- Song, Y.**, see Cai, H., *TBME Feb. 2018 353-364*
- Sorelli, M.**, Perrella, A., and Bocchi, L., Detecting Vascular Age Using the Analysis of Peripheral Pulse; *TBME Dec. 2018 2742-2750*
- Sornmo, L.**, see Henriksson, M., *TBME Nov. 2018 2600-2611*
- Soule, C.L.**, see Singal, A., *TBME Oct. 2018 2202-2209*
- Sparacino, G.**, see Acciaroli, G., *TBME March 2018 587-595*
- Sparacino, G.**, see Vettoretti, M., *TBME June 2018 1281-1290*
- Speicher, D.**, see Crowe, L.A., *TBME Feb. 2018 294-306*
- Springeling, G.**, see Janjic, J., *TBME Oct. 2018 2210-2218*
- Spronck, B.**, see Butlin, M., *TBME Nov. 2018 2377-2383*
- Squires, A.**, see Chen, Y., *TBME July 2018 1434-1442*
- Sriperumbudur, K.K.**, Pau, H.W., and van Rienen, U., Effect of Tissue Heterogeneity on the Transmembrane Potential of Type-1 Spiral Ganglion Neurons: A Simulation Study; *TBME March 2018 658-668*
- Sriraam, N.**, see Raghu, S., *TBME Nov. 2018 2612-2621*
- Ssenyonga, P.**, see Cherukuri, V., *TBME Aug. 2018 1871-1884*
- Stanev, D.**, and Moustakas, K., Simulation of Constrained Musculoskeletal Systems in Task Space; *TBME Feb. 2018 307-318*
- Stang, J.**, see Chen, G., *TBME March 2018 528-538*
- Star, A.**, see Rothfuss, M.A., *TBME Oct. 2018 2290-2297*
- Stashuk, D.W.**, see Kamali, T., *TBME Nov. 2018 2494-2502*

Stavisky, S.D., see Even-Chen, N., *TBME Aug. 2018 1771-1784*
Stewart, K.W., see Dickson, J.L., *TBME July 2018 1543-1553*
Stoianovici, D., Jun, C., Lim, S., Li, P., Petrisor, D., Fricke, S., Sharma, K., and Cleary, K., Multi-Imager Compatible, MR Safe, Remote Center of Motion Needle-Guide Robot; *TBME Jan. 2018 165-177*
Stolyarov, R., Burnett, G., and Herr, H., Translational Motion Tracking of Leg Joints for Enhanced Prediction of Walking Tasks; *TBME April 2018 763-769*
Strackee, S.D., see Dobbe, J.G.G., *TBME April 2018 821-827*
Streekstra, G.J., see Dobbe, J.G.G., *TBME April 2018 821-827*
Streitz, T., see Meng, J., *TBME Nov. 2018 2417-2427*
Su, B., see Jiao, C., *TBME Nov. 2018 2634-2648*
Suefusa, K., and Tanaka, T., Asynchronous Brain-Computer Interfacing Based on Mixed-Coded Visual Stimuli; *TBME Sept. 2018 2119-2129*
Suma, D., see Meng, J., *TBME Nov. 2018 2417-2427*
Summers, P., see Seregini, M., *TBME Jan. 2018 131-139*
Sun, C., see Li, Y., *TBME April 2018 779-788*
Sun, G., see Gong, J., *TBME May 2018 1035-1048*
Sun, L., see Qiu, W., *TBME Jan. 2018 15-20*
Sun, L., see Fei, C., *TBME Sept. 2018 2087-2092*
Sun, Y., see Johnson, W., *TBME March 2018 678-686*
Sun, Y., see Jia, D., *TBME April 2018 839-846*
Sundnes, J., see Behdadfar, S., *TBME June 2018 1391-1398*
Suomi, V., Jaros, J., Treeby, B., and Cleveland, R.O., Full Modeling of High-Intensity Focused Ultrasound and Thermal Heating in the Kidney Using Realistic Patient Models; *TBME May 2018 969-979*
Suomi, V., Jaros, J., Treeby, B., and Cleveland, R.O., Full Modeling of High-Intensity Focused Ultrasound and Thermal Heating in the Kidney Using Realistic Patient Models; *TBME Nov. 2018 2660-2670*
Surges, R., see Theeranaew, W., *TBME Feb. 2018 371-377*
Swann, K., see Khan, H., *TBME Sept. 2018 2109-2118*
Sweet, J.A., see Willett, F.R., *TBME Sept. 2018 2066-2078*
Swinnen, E., see Junius, K., *TBME June 2018 1399-1409*
Szatkowski, G., see Cluff, K., *TBME April 2018 847-856*

T

Tak, S., see Lee, D., *TBME Sept. 2018 1985-1995*
Takemura, K., see Nakao, M., *TBME Jan. 2018 224-231*
Tan, I., see Xiao, H., *TBME June 2018 1226-1234*
Tan, I., see Butlin, M., *TBME Nov. 2018 2377-2383*
Tan, M., see Johnson, W., *TBME March 2018 678-686*
Tan, X., see Xia, N., *TBME July 2018 1575-1584*
Tanaka, T., see Suefusa, K., *TBME Sept. 2018 2119-2129*
Tang, H., see Peng, J., *TBME Jan. 2018 140-148*
Tang, S., Huang, K., Cheng, Y., Niu, T., and Tang, X., Three-Dimensional Weighting in Cone Beam FBP Reconstruction and Its Transformation Over Geometries; *TBME June 2018 1235-1244*
Tang, X., see Tang, S., *TBME June 2018 1235-1244*
Tang, X., see Zhang, B., *TBME Sept. 2018 2093-2100*
Tangen, K., see Sane, A., *TBME Nov. 2018 2503-2511*
Tao, J., see Theeranaew, W., *TBME Feb. 2018 371-377*
Tateno, T., see Minusa, S., *TBME June 2018 1301-1310*
Taulu, S., see Larson, E., *TBME May 2018 1002-1013*
Tavassolian, N., see Mirbeik-Sabzevari, A., *TBME June 2018 1320-1329*
Teague, C.N., see Hersek, S., *TBME Dec. 2018 1291-1300*
Thakor, N.V., see Bethausser, J.L., *TBME April 2018 770-778*
Theeranaew, W., McDonald, J., Zonjy, B., Kaffashi, F., Moseley, B.D., Friedman, D., So, E., Tao, J., Nei, M., Rylvlin, P., Surges, R., Thijs, R., Schuele, S., Lhatoo, S., and Loparo, K.A., Automated Detection of Postictal Generalized EEG Suppression; *TBME Feb. 2018 371-377*
Thijs, R., see Theeranaew, W., *TBME Feb. 2018 371-377*
Thomas, S., see Colley, E., *TBME Aug. 2018 1885-1891*
Thompson, S., see Klassen, C., *TBME Dec. 2018 2827-2836*
Thyagaraj, S., Pahlavian, S.H., Sass, L.R., Loth, F., Vatani, M., Choi, J., Tubbs, R.S., Giese, D., Kroger, J., Bunck, A.C., and Martin, B.A., An MRI-Compatible Hydrodynamic Simulator of Cerebrospinal Fluid Motion in the Cervical Spine; *TBME July 2018 1516-1523*
Tian, J., see Gong, J., *TBME May 2018 1035-1048*
Timek, T., see Kondapalli, S.H., *TBME Jan. 2018 149-158*
Tizhoosh, H.R., and Babaie, M., Representing Medical Images With Encoded Local Projections; *TBME Oct. 2018 2267-2277*
Toffanin, C., Visentin, R., Messori, M., Palma, F.D., Magni, L., and Cobelli, C., Toward a Run-to-Run Adaptive Artificial Pancreas: In Silico Results; *TBME March 2018 479-488*

Tolkacheva, E.G., see Annoni, E.M., *TBME Feb. 2018 273-281*
Tomar, S., see Bui, H.P., *TBME March 2018 596-607*
Tondel, K., see McLeod, K., *TBME Dec. 2018 2769-2780*
Tong, S., see He, Z., *TBME Jan. 2018 219-223*
Tong, S., see Liu, Q., *TBME Oct. 2018 2136-2142*
Totty, M.S., and Wade, E., Muscle Activation and Inertial Motion Data for Noninvasive Classification of Activities of Daily Living; *TBME May 2018 1069-1076*
Trebicka, J., see Audebert, C., *TBME Oct. 2018 2311-2322*
Treeby, B., see Suomi, V., *TBME May 2018 969-979*
Treeby, B., see Suomi, V., *TBME Nov. 2018 2660-2670*
Tregidgo, H.F.J., Crabb, M.G., Hazel, A.L., and Lionheart, W.R.B., On the Feasibility of Automated Mechanical Ventilation Control Through EIT; *TBME Nov. 2018 2459-2470*
Trejos, A.L., see Poursartip, B., *TBME July 2018 1532-1542*
Trenor, B., see Sanroman-Junquera, M., *TBME April 2018 723-732*
Tresch, M.C., see Wei, Q., *TBME Feb. 2018 469-476*
Trew, M.L., see Ai, W., *TBME Jan. 2018 123-130*
Trullo, R., see Nie, D., *TBME Dec. 2018 2720-2730*
Trumper, D.L., see Noh, M., *TBME Oct. 2018 2178-2189*
Tse, Z.T.H., see Chen, Y., *TBME July 2018 1434-1442*
Tu, J., see Zhou, Y., *TBME May 2018 1086-1094*
Tu, J., see Yu, Z., *TBME Nov. 2018 2512-2518*
Tubbs, R.S., see Thyagaraj, S., *TBME July 2018 1516-1523*
Tucker, D., see Fernandez-Corazza, M., *TBME Aug. 2018 1785-1797*
Tung, C., see Zhang, Z., *TBME April 2018 936-946*
Turkbey, I.B., see Chen, Y., *TBME July 2018 1434-1442*
Turovets, S., see Fernandez-Corazza, M., *TBME Aug. 2018 1785-1797*
Tzoumas, S., Vernekohl, D., and Xing, L., Coded-Aperture Compressed Sensing X-Ray Luminescence Tomography; *TBME Aug. 2018 1892-1895*
Tzoumas, S., see Zhang, G., *TBME Sept. 2018 2130-2133*

U

Udhayakumar, R.K., Karmakar, C., and Palaniswami, M., Understanding Irregularity Characteristics of Short-Term HRV Signals Using Sample Entropy Profile; *TBME Nov. 2018 2569-2579*
Ulysses, J.N., Berg, L.A., Cherry, E.M., Liu, B.R., Santos, R.W.d., de Barros, B.G., Rocha, B.M., and de Queiroz, R.A.B., An Optimization-Based Algorithm for the Construction of Cardiac Purkinje Network Models; *TBME Dec. 2018 2760-2768*
Ung, H., see Nurse, E.S., *TBME Feb. 2018 344-352*
Urban, B.E., Xiao, L., Chen, S., Yang, H., Dong, B., Kozorovitskiy, Y., and Zhang, H.F., *In Vivo* Superresolution Imaging of Neuronal Structure in the Mouse Brain; *TBME Jan. 2018 232-238*
Uryga, A., see Kaczmarzka, K., *TBME March 2018 619-624*

V

Valenza, G., Wendt, H., Kiyono, K., Hayano, J., Watanabe, E., Yamamoto, Y., Abry, P., and Barbieri, R., Mortality Prediction in Severe Congestive Heart Failure Patients With Multifractal Point-Process Modeling of Heartbeat Dynamics; *TBME Oct. 2018 2345-2354*
Valenza, G., Faes, L., Citi, L., Orini, M., and Barbieri, R., Instantaneous Transfer Entropy for the Study of Cardiovascular and Cardiorespiratory Nonstationary Dynamics; *TBME May 2018 1077-1085*
Vallee, J., see Crowe, L.A., *TBME Feb. 2018 294-306*
Van Bogaert, P., see Colominas, M.A., *TBME Aug. 2018 1681-1688*
Van Damme, X., see Frohlich, H., *TBME May 2018 1133-1139*
van der Schaar, M., see Alaa, A.M., *TBME Jan. 2018 207-218*
van der Steen, A.F.W., see Janjic, J., *TBME Oct. 2018 2210-2218*
van Etten, P.G., see Adal, K.M., *TBME June 2018 1382-1390*
van Rienen, U., see Sriperebumbudur, K.K., *TBME March 2018 658-668*
van Rienen, U., see Schmidt, C., *TBME Aug. 2018 1828-1839*
van Soest, G., see Janjic, J., *TBME Oct. 2018 2210-2218*
Van Troyen, D., see Deas Yero, D., *TBME Nov. 2018 2560-2568*
Van Veen, B.D., see Laufer, S., *TBME July 2018 1585-1594*
van Vliet, L.J., see Adal, K.M., *TBME June 2018 1382-1390*
Vandenbosch, G.A.E., see Deas Yero, D., *TBME Nov. 2018 2560-2568*
Vanderborght, B., see Junius, K., *TBME June 2018 1399-1409*
Varcoe, R.L., see Colley, E., *TBME Aug. 2018 1885-1891*
Varol, H.A., see Massalin, Y., *TBME Aug. 2018 1759-1770*
Varsos, G., see Kaczmarzka, K., *TBME March 2018 619-624*

Vatani, M., *see* Thyagaraj, S., *TBME July 2018 1516-1523*
Vemuri, A.S., *see* Moccia, S., *TBME Nov. 2018 2649-2659*
Veneri, A., *see* Lassila, T., *TBME July 2018 1654-1661*
Vera, P., *see* Lian, C., *TBME Jan. 2018 21-30*
Verhoeven, T., *see* Korshunova, I., *TBME March 2018 502-510*
Vigna, V., *see* Clarke, M., *TBME May 2018 1014-1025*
Vermeer, K.A., *see* Adal, K.M., *TBME June 2018 1382-1390*
Vernekohl, D., *see* Tzoumas, S., *TBME Aug. 2018 1892-1895*
Vesin, J., *see* Yazdani, S., *TBME April 2018 754-762*
Vettoretti, M., *see* Acciaroli, G., *TBME March 2018 587-595*
Vettoretti, M., Facchinetti, A., Sparacino, G., and Cobelli, C., Type-1 Diabetes Patient Decision Simulator for In Silico Testing Safety and Effectiveness of Insulin Treatments; *TBME June 2018 1281-1290*
Vignon-Clementel, I.E., *see* Audebert, C., *TBME Oct. 2018 2311-2322*
Vignon-Clementel, I.E., *see* Pant, S., *TBME Nov. 2018 2450-2458*
Villaroman, A., *see* Shahriari, Y., *TBME April 2018 745-753*
Visell, Y., *see* Li, B., *TBME March 2018 687-697*
Visentin, R., *see* Toffanin, C., *TBME March 2018 479-488*
Vogel, R., *see* Zurbuchen, A., *TBME Feb. 2018 424-430*
Voix, J., *see* Martin, A., *TBME June 2018 1256-1263*
Volotskova, O., *see* Sano, M.B., *TBME April 2018 928-935*

W

Wacker, J., *see* Rapin, M., *TBME Jan. 2018 113-122*
Wade, E., *see* Totty, M.S., *TBME May 2018 1069-1076*
Wade, J.W., *see* Fan, J., *TBME Jan. 2018 43-51*
Walter, B.L., *see* Willett, F.R., *TBME Sept. 2018 2066-2078*
Wang, B., *see* Chen, C., *TBME March 2018 489-501*
Wang, C., *see* Qiu, W., *TBME Jan. 2018 15-20*
Wang, D., Ren, D., Li, K., Feng, Y., Ma, D., Yan, X., and Wang, G., Epileptic Seizure Detection in Long-Term EEG Recordings by Using Wavelet-Based Directed Transfer Function; *TBME Nov. 2018 2591-2599*
Wang, G., *see* He, Z., *TBME Jan. 2018 219-223*
Wang, G., *see* Wang, D., *TBME Nov. 2018 2591-2599*
Wang, J., *see* Fan, Z., *TBME Feb. 2018 378-389*
Wang, K., *see* Chen, R., *TBME March 2018 645-657*
Wang, K., Huang, Y., Smith, P.E.S., Zhang, Z., Cai, S., and Chen, Z., Single-Scan High-Resolution 2-D J-Resolved Spectroscopy in Inhomogeneous Magnetic Fields; *TBME Feb. 2018 440-448*
Wang, K., *see* Luo, G., *TBME Sept. 2018 1924-1934*
Wang, K.L., *see* Shaikh, M.F., *TBME Aug. 2018 1740-1747*
Wang, L., *see* Nie, D., *TBME Dec. 2018 2720-2730*
Wang, L., *see* Shen, D., *TBME Feb. 2018 1898-1899*
Wang, M., *see* Zhou, Y., *TBME Sept. 2018 1935-1942*
Wang, Q., *see* Nie, D., *TBME Dec. 2018 2720-2730*
Wang, Q., *see* Huang, Q., *TBME Sept. 2018 2023-2032*
Wang, Q., *see* Cao, X., *TBME Sept. 2018 1900-1911*
Wang, S., *see* Zhou, M., *TBME March 2018 521-527*
Wang, S., *see* Zhou, Y., *TBME Sept. 2018 1935-1942*
Wang, S., Chang, S., Hsu, C., and Fang, Y., Visible Illumination Enhanced Nonenzymatic Glucose Photobiosensor Based on TiO₂ Nanorods Decorated With Au Nanoparticles; *TBME Sept. 2018 2052-2057*
Wang, T., *see* Peng, J., *TBME Jan. 2018 140-148*
Wang, X., *see* Qiu, W., *TBME Jan. 2018 15-20*
Wang, X., *see* Johnson, W., *TBME March 2018 678-686*
Wang, Y., *see* Nakanishi, M., *TBME Jan. 2018 104-112*
Wang, Y., *see* Nakanishi, M., *TBME Jan. 2018 104-112*
Wang, Y., *see* Hu, W., *TBME Feb. 2018 390-399*
Wang, Y., *see* Xu, M., *TBME May 2018 1166-1175*
Wang, Y., Xin, X., Liu, F., and Crozier, S., Spiral Gradient Coil Design for Use in Cylindrical MRI Systems; *TBME April 2018 911-920*
Wang, Y., Lin, K., Qi, Y., Lian, Q., Feng, S., Wu, Z., and Pan, G., Estimating Brain Connectivity With Varying-Length Time Lags Using a Recurrent Neural Network; *TBME Sept. 2018 1953-1963*
Wang, Z., Boddeda, A., Parker, B., Samanipour, R., Ghosh, S., Menard, F., and Kim, K., A High-Resolution Minimicroscope System for Wireless Real-Time Monitoring; *TBME July 2018 1524-1531*
Ward, A., *see* Nahlawi, L., *TBME Aug. 2018 1798-1809*
Warf, B.C., *see* Cherukuri, V., *TBME Aug. 2018 1871-1884*
Warren, Z.E., *see* Fan, J., *TBME Jan. 2018 43-51*
Watanabe, E., *see* Valenza, G., *TBME Oct. 2018 2345-2354*
Watkinson, P.J., *see* Birrenkott, D.A., *TBME Sept. 2018 2033-2041*
Weber, S., *see* Lu, P., *TBME Jan. 2018 178-188*

Wedekind, D., Kleyko, D., Osipov, E., Malberg, H., Zauneder, S., and Wiklund, U., Robust Methods for Automated Selection of Cardiac Signals After Blind Source Separation; *TBME Oct. 2018 2248-2258*
Wegner, C., *see* Moszkowski, T., *TBME March 2018 550-555*
Wei, Q., Pai, D.K., and Tresch, M.C., Uncertainty in Limb Configuration Makes Minimal Contribution to Errors Between Observed and Predicted Forces in a Musculoskeletal Model of the Rat Hindlimb; *TBME Feb. 2018 469-476*
Wei, Z., *see* Singh, R., *TBME Aug. 2018 1705-1710*
Welle, C.G., *see* Huang, S., *TBME June 2018 1272-1280*
Welsh, C.J., *see* Jeong, S., *TBME Feb. 2018 431-439*
Wen, X., *see* Zhang, C., *TBME July 2018 1639-1653*
Wenderoth, N., *see* Jaspers, E., *TBME April 2018 857-865*
Wendt, H., *see* Valenza, G., *TBME Oct. 2018 2345-2354*
Westover, M.B., *see* Nagaraj, S.B., *TBME Dec. 2018 2684-2691*
Wiklund, U., *see* Wedekind, D., *TBME Oct. 2018 2248-2258*
Wilders-Smith, O., *see* Kleckner, I.R., *TBME July 2018 1460-1467*
Willett, F.R., Murphy, B.A., Young, D., Memberg, W.D., Blabe, C.H., Pandarinath, C., Franco, B., Saab, J., Walter, B.L., Sweet, J.A., Miller, J.P., Henderson, J.M., Shenoy, K.V., Simeral, J.D., Jarosiewicz, B., Hochberg, L.R., Kirsch, R.F., and Ajiboye, A.B., A Comparison of Intention Estimation Methods for Decoder Calibration in Intracortical Brain-Computer Interfaces; *TBME Sept. 2018 2066-2078*
Wirkert, S.J., *see* Moccia, S., *TBME Nov. 2018 2649-2659*
Woernle, C., *see* Geier, A., *TBME Nov. 2018 2471-2482*
Wolkoff, P., *see* Hersek, S., *TBME June 2018 1291-1300*
Wong, J., *see* Klassen, C., *TBME Dec. 2018 2827-2836*
Wong, K.K.L., *see* Huang, X., *TBME May 2018 949-955*
Wong, M.D., *see* Wu, D., *TBME May 2018 1117-1123*
Wood, B., *see* Chen, Y., *TBME July 2018 1434-1442*
Woolley, D.G., *see* Jaspers, E., *TBME April 2018 857-865*
Wormwood, J.B., *see* Kleckner, I.R., *TBME July 2018 1460-1467*
Wright, S.M., *see* Cui, J., *TBME Oct. 2018 2259-2266*
Wu, D., Wong, M.D., Yang, K., Yan, A., Li, Y., Fajardo, L., Zheng, B., Wu, X., and Liu, H., Using Microbubble as Contrast Agent for High-Energy X-Ray In-line Phase Contrast Imaging: Demonstration and Comparison Study; *TBME May 2018 1117-1123*
Wu, J., *see* Li, Y., *TBME April 2018 779-788*
Wu, L., *see* Yu, L., *TBME July 2018 1495-1503*
Wu, L., *see* Yang, T., *TBME July 2018 1662-1671*
Wu, M., *see* Kazempour, A., *TBME Jan. 2018 74-86*
Wu, M., Chen, Q., He, X., Li, P., Fan, W., Yuan, S., and Park, H., Automatic Subretinal Fluid Segmentation of Retinal SD-OCT Images With Neurosensory Retinal Detachment Guided by Enface Fundus Imaging; *TBME Jan. 2018 87-95*
Wu, W., *see* Pirbhulal, S., *TBME Dec. 2018 2751-2759*
Wu, X., *see* Wu, D., *TBME May 2018 1117-1123*
Wu, Y., *see* He, Z., *TBME Jan. 2018 219-223*
Wu, Y., and Guo, L., Enhancement of Intercellular Electrical Synchronization by Conductive Materials in Cardiac Tissue Engineering; *TBME Feb. 2018 264-272*
Wu, Z., *see* Wang, Y., *TBME Sept. 2018 1953-1963*
Wudel, L.J., *see* Klassen, C., *TBME Dec. 2018 2827-2836*

X

Xi, L., *see* Huang, N., *TBME July 2018 1452-1459*
Xia, J., *see* Qiu, W., *TBME Jan. 2018 15-20*
Xia, N., Tan, X., Xu, Y., Hou, W., Mao, T., and Richter, C., Pressure in the Cochlea During Infrared Irradiation; *TBME July 2018 1575-1584*
Xiao, H., Butlin, M., Qasem, A., Tan, I., Li, D., and Avolio, A.P., N-Point Moving Average: A Special Generalized Transfer Function Method for Estimation of Central Aortic Blood Pressure; *TBME June 2018 1226-1234*
Xiao, L., *see* Urban, B.E., *TBME Jan. 2018 232-238*
Xiao, X., *see* Xu, M., *TBME May 2018 1166-1175*
Xiao, Y., *see* Qiu, W., *TBME Jan. 2018 15-20*
Xie, J., *see* Yan, W., *TBME Aug. 2018 1696-1704*
Xie, S., *see* Johnson, W., *TBME March 2018 678-686*
Xin, X., *see* Wang, Y., *TBME April 2018 911-920*
Xing, L., *see* Sano, M.B., *TBME April 2018 928-935*
Xing, L., *see* Tzoumas, S., *TBME Aug. 2018 1892-1895*
Xing, L., *see* Zhang, G., *TBME Sept. 2018 2130-2133*
Xu, G., *see* Yan, W., *TBME Aug. 2018 1696-1704*
Xu, J., *see* Zhou, Y., *TBME Sept. 2018 1935-1942*

- Xu, M.**, Xiao, X., Wang, Y., Qi, H., Jung, T., and Ming, D., A Brain-Computer Interface Based on Miniature-Event-Related Potentials Induced by Very Small Lateral Visual Stimuli; *TBME May 2018 1166-1175*
- Xu, S.**, see Chen, Y., *TBME July 2018 1434-1442*
- Xu, Y.**, see Xia, N., *TBME July 2018 1575-1584*
- Xu, Z.**, see Huo, Y., *TBME Feb. 2018 336-343*

Y

- Yagi, N.**, see Inoue, K., *TBME Nov. 2018 2529-2541*
- Yahav, G.**, Gershanov, S., Salmon-Divon, M., Ben-Zvi, H., Mircus, G., Goldenberg-Cohen, N., and Fixler, D., Pathogen Detection Using Frequency Domain Fluorescent Lifetime Measurements; *TBME Dec. 2018 2731-2741*
- Yamamoto, K.**, see Amida, T., *TBME May 2018 1124-1132*
- Yamamoto, Y.**, see Valenza, G., *TBME Oct. 2018 2345-2354*
- Yan, A.**, see Wu, D., *TBME May 2018 1117-1123*
- Yan, H.**, see Pham, T.D., *TBME Aug. 2018 1820-1827*
- Yan, W.**, Xu, G., Xie, J., Li, M., and Dan, Z., Four Novel Motion Paradigms Based on Steady-State Motion Visual Evoked Potential; *TBME Aug. 2018 1696-1704*
- Yan, X.**, see Wang, D., *TBME Nov. 2018 2591-2599*
- Yan, Y.**, see Jia, D., *TBME April 2018 839-846*
- Yan, Z.**, Yang, X., and Cheng, K., Joint Segment-Level and Pixel-Wise Losses for Deep Learning Based Retinal Vessel Segmentation; *TBME Sept. 2018 1912-1923*
- Yang, A.J.**, see Lamers, E.P., *TBME Aug. 2018 1674-1680*
- Yang, C.**, Li, W., and Chen, R.K., Characterization and Modeling of Tissue Thermal Conductivity During an Electrosurgical Joining Process; *TBME Feb. 2018 365-370*
- Yang, G.**, see Qiu, W., *TBME Jan. 2018 15-20*
- Yang, H.**, see Urban, B.E., *TBME Jan. 2018 232-238*
- Yang, J.**, see Lu, H., *TBME April 2018 809-820*
- Yang, J.**, see Singh, R., *TBME Aug. 2018 1705-1710*
- Yang, J.**, see Cao, X., *TBME Sept. 2018 1900-1911*
- Yang, K.**, see Wu, D., *TBME May 2018 1117-1123*
- Yang, T.**, Yu, L., Jin, Q., Wu, L., and He, B., Localization of Origins of Premature Ventricular Contraction by Means of Convolutional Neural Network From 12-Lead ECG; *TBME July 2018 1662-1671*
- Yang, X.**, see He, Z., *TBME Jan. 2018 219-223*
- Yang, X.**, see Yan, Z., *TBME Sept. 2018 1912-1923*
- Yang, Y.**, see Fei, C., *TBME Sept. 2018 2087-2092*
- Yang, Z.**, see Lu, J., *TBME Jan. 2018 52-63*
- Yao, C.**, see Zhao, Y., *TBME Aug. 2018 1810-1819*
- Yao, L.**, see Zhang, C., *TBME July 2018 1639-1653*
- Yao, L.**, see Huang, N., *TBME July 2018 1452-1459*
- Yao, L.**, Sheng, X., Mrachacz-Kersting, N., Zhu, X., Farina, D., and Jiang, N., Decoding Covert Somatosensory Attention by a BCI System Calibrated With Tactile Sensation; *TBME Aug. 2018 1689-1695*
- Yap, P.**, see Cao, X., *TBME Sept. 2018 1900-1911*
- Yazdani, S.**, Fallet, S., and Vesin, J., A Novel Short-Term Event Extraction Algorithm for Biomedical Signals; *TBME April 2018 754-762*
- Ye, J.**, see Zhou, M., *TBME March 2018 521-527*
- Ye, J.**, see Zhang, Z., *TBME April 2018 936-946*
- Ye, J.C.**, see Lee, D., *TBME Sept. 2018 1985-1995*
- Ye, M.**, see Huang, S., *TBME June 2018 1272-1280*
- Yener, B.**, see Khan, H., *TBME Sept. 2018 2109-2118*
- Yin, H.**, Tensor Sparse Representation for 3-D Medical Image Fusion Using Weighted Average Rule; *TBME Nov. 2018 2622-2633*
- Ying, J.**, see Lu, H., *TBME April 2018 809-820*
- Yip, E.**, see Ai, W., *TBME Jan. 2018 123-130*
- Yoo, H.H.**, see Kang, M.J., *TBME May 2018 980-988*
- Yoo, J.**, see Lee, D., *TBME Sept. 2018 1985-1995*
- Yoon, H.**, Choi, S.H., Kwon, H.B., Kim, S.K., Hwang, S.H., Oh, S.M., Choi, J., Lee, Y.J., Jeong, D., and Park, K.S., Sleep-Dependent Directional Coupling of Cardiorespiratory System in Patients With Obstructive Sleep Apnea; *TBME Dec. 2018 2847-2854*
- Yoon, J.**, see Alaa, A.M., *TBME Jan. 2018 207-218*
- Yoshioka, M.**, see Inoue, K., *TBME Nov. 2018 2529-2541*
- You, H.**, see Li, Y., *TBME April 2018 779-788*
- Young, D.**, see Willett, F.R., *TBME Sept. 2018 2066-2078*
- Yousefnia, M.**, Ebrahimzadeh, A., Dehmollaiian, M., and Madannejad, A., A Time-Reversal Imaging System for Breast Screening: Theory and Initial Phantom Results; *TBME Nov. 2018 2542-2551*
- Yu, G.J.**, see Bingham, C.S., *TBME Oct. 2018 2278-2289*

- Yu, L.**, Jin, Q., Zhou, Z., Wu, L., and He, B., Three-Dimensional Noninvasive Imaging of Ventricular Arrhythmias in Patients With Premature Ventricular Contractions; *TBME July 2018 1495-1503*
- Yu, L.**, see Yang, T., *TBME July 2018 1662-1671*
- Yu, W.**, see Jiang, H., *TBME Dec. 2018 2808-2813*
- Yu, Y.**, Guo, D., Lou, M., Liebeskind, D., and Scalzo, F., Prediction of Hemorrhagic Transformation Severity in Acute Stroke From Source Perfusion MRI; *TBME Sept. 2018 2058-2065*
- Yu, Z.**, Dai, S., Ma, Q., Guo, G., Tu, J., and Zhang, D., Conductivity Anisotropy Influence on Acoustic Sources for Magnetoacoustic Tomography With Magnetic Induction; *TBME Nov. 2018 2512-2518*
- Yuan, S.**, see Wu, M., *TBME Jan. 2018 87-95*
- Yucel, A.C.**, see Gomez, L.J., *TBME March 2018 565-574*

Z

- Zakrzewski, A.M.**, and Anthony, B.W., Noninvasive Blood Pressure Estimation Using Ultrasound and Simple Finite Element Models; *TBME Sept. 2018 2011-2022*
- Zakrzewski, A.M.**, Huang, A.Y., Zubajlo, R., and Anthony, B.W., Real-Time Blood Pressure Estimation From Force-Measured Ultrasound; *TBME Nov. 2018 2405-2416*
- Zanetti, G.**, see Busonera, G., *TBME Dec. 2018 2713-2719*
- Zanini, P.**, Congedo, M., Jutten, C., Said, S., and Berthoumieu, Y., Transfer Learning: A Riemannian Geometry Framework With Applications to Brain-Computer Interfaces; *TBME May 2018 1107-1116*
- Zanne, P.**, see Zorn, L., *TBME April 2018 797-808*
- Zare, A.**, see Jiao, C., *TBME Nov. 2018 2634-2648*
- Zauneder, S.**, see Wedekind, D., *TBME Oct. 2018 2248-2258*
- Zavitsanou, S.**, see Chakrabarty, A., *TBME March 2018 575-586*
- Zelik, K.E.**, see Lamers, E.P., *TBME Aug. 2018 1674-1680*
- Zemzemi, N.**, see Raphel, F., *TBME June 2018 1311-1319*
- Zhang, B.**, Kuang, D., Tang, X., Mi, Y., Luo, Q., and Song, G., Effect of Low-Field High-Frequency nsPEFs on the Biological Behaviors of Human A375 Melanoma Cells; *TBME Sept. 2018 2093-2100*
- Zhang, C.**, Yao, L., Song, S., Wen, X., Zhao, X., and Long, Z., Euler Elastica Regularized Logistic Regression for Whole-Brain Decoding of fMRI Data; *TBME July 2018 1639-1653*
- Zhang, D.**, see Zhou, Y., *TBME May 2018 1086-1094*
- Zhang, D.**, see Yu, Z., *TBME Nov. 2018 2512-2518*
- Zhang, F.**, see Chen, C., *TBME March 2018 489-501*
- Zhang, G.**, see Zhuang, S., *TBME Jan. 2018 64-73*
- Zhang, G.**, Tzoumas, S., Cheng, K., Liu, F., Liu, J., Luo, J., Bai, J., and Xing, L., Generalized Adaptive Gaussian Markov Random Field for X-Ray Luminescence Computed Tomography; *TBME Sept. 2018 2130-2133*
- Zhang, H.**, see Pirbhulal, S., *TBME Dec. 2018 2751-2759*
- Zhang, H.**, see Jia, D., *TBME April 2018 839-846*
- Zhang, H.**, see Luo, G., *TBME Sept. 2018 1924-1934*
- Zhang, H.F.**, see Urban, B.E., *TBME Jan. 2018 232-238*
- Zhang, H.F.**, see Liu, Q., *TBME Oct. 2018 2136-2142*
- Zhang, J.**, Bekkers, E., Chen, D., Berendschot, T.T.J.M., Schouten, J., Pluim, J.P.W., Shi, Y., Dashtbozorg, B., and Romeny, B.M.t.H., Reconnection of Interrupted Curvilinear Structures via Cortically Inspired Completion for Ophthalmologic Images; *TBME May 2018 1151-1165*
- Zhang, J.**, see Cao, X., *TBME Sept. 2018 1900-1911*
- Zhang, L.**, see He, Z., *TBME Jan. 2018 219-223*
- Zhang, L.**, see Liu, J., *TBME Sept. 2018 1943-1952*
- Zhang, S.**, see Jiang, X., *TBME June 2018 1183-1192*
- Zhang, S.**, see Zhao, Y., *TBME Sept. 2018 1975-1984*
- Zhang, T.**, see Jiang, X., *TBME June 2018 1183-1192*
- Zhang, W.**, see Jiang, X., *TBME June 2018 1183-1192*
- Zhang, W.**, see Zhao, Y., *TBME Sept. 2018 1975-1984*
- Zhang, X.**, see Lu, H., *TBME April 2018 809-820*
- Zhang, X.**, see Liu, J., *TBME Sept. 2018 1943-1952*
- Zhang, Y.**, see Pirbhulal, S., *TBME Dec. 2018 2751-2759*
- Zhang, Y.**, see Huang, X., *TBME May 2018 949-955*
- Zhang, Y.**, see Bernardis, E., *TBME April 2018 733-744*
- Zhang, Y.**, see Huang, Q., *TBME Sept. 2018 2023-2032*
- Zhang, Z.**, see Johnson, W., *TBME March 2018 678-686*
- Zhang, Z.**, see Wang, K., *TBME Feb. 2018 440-448*
- Zhang, Z.**, Rose, S., Ye, J., Perkins, A.E., Chen, B., Kao, C., Sidky, E.Y., Tung, C., and Pan, X., Optimization-Based Image Reconstruction From Low-Count, List-Mode TOF-PET Data; *TBME April 2018 936-946*
- Zhao, S.**, see Jiang, X., *TBME June 2018 1183-1192*
- Zhao, X.**, see Zhang, C., *TBME July 2018 1639-1653*

- Zhao, Y.**, see Huang, N., *TBME July 2018 1452-1459*
- Zhao, Y.**, Bhonsle, S., Dong, S., Lv, Y., Liu, H., Safaai-Jazi, A., Davalos, R.V., and Yao, C., Characterization of Conductivity Changes During High-Frequency Irreversible Electroporation for Treatment Planning; *TBME Aug. 2018 1810-1819*
- Zhao, Y.**, Dong, Q., Zhang, S., Zhang, W., Chen, H., Jiang, X., Guo, L., Hu, X., Han, J., and Liu, T., Automatic Recognition of fMRI-Derived Functional Networks Using 3-D Convolutional Neural Networks; *TBME Sept. 2018 1975-1984*
- Zheng, B.**, see Wu, D., *TBME May 2018 1117-1123*
- Zheng, H.**, see Qiu, W., *TBME Jan. 2018 15-20*
- Zheng, H.**, see Huang, X., *TBME May 2018 949-955*
- Zheng, H.**, see Zhou, Y., *TBME Sept. 2018 1935-1942*
- Zheng, R.**, see Huang, X., *TBME May 2018 949-955*
- Zhong, J.**, see Zhuang, S., *TBME Jan. 2018 64-73*
- Zhou, C.**, see Johnson, W., *TBME March 2018 678-686*
- Zhou, D.W.**, see Nagaraj, S.B., *TBME Dec. 2018 2684-2691*
- Zhou, J.**, see Gong, J., *TBME May 2018 1035-1048*
- Zhou, M.**, Jin, K., Wang, S., Ye, J., and Qian, D., Color Retinal Image Enhancement Based on Luminosity and Contrast Adjustment; *TBME March 2018 521-527*
- Zhou, Q.**, see Peng, J., *TBME Jan. 2018 140-148*
- Zhou, Q.**, see Fei, C., *TBME Sept. 2018 2087-2092*
- Zhou, Y.**, Ma, Q., Guo, G., Tu, J., and Zhang, D., Magneto-acousto-electrical Measurement Based Electrical Conductivity Reconstruction for Tissues; *TBME May 2018 1086-1094*
- Zhou, Y.**, Xu, J., Liu, Q., Li, C., Liu, Z., Wang, M., Zheng, H., and Wang, S., A Radiomics Approach With CNN for Shear-Wave Elastography Breast Tumor Classification; *TBME Sept. 2018 1935-1942*
- Zhou, Z.**, see Yu, L., *TBME July 2018 1495-1503*
- Zhu, M.**, see Liu, J., *TBME Sept. 2018 1943-1952*
- Zhu, X.**, see Yao, L., *TBME Aug. 2018 1689-1695*
- Zhuang, S.**, Lin, W., Zhong, J., Zhang, G., Li, L., Qiu, J., and Gao, H., Visual Servoed Three-Dimensional Rotation Control in Zebrafish Larva Heart Microinjection System; *TBME Jan. 2018 64-73*
- Ziaie, B.**, see Jiang, H., *TBME Dec. 2018 2808-2813*
- Zitoun, P.**, see Raphel, F., *TBME June 2018 1311-1319*
- Zohrer, M.**, see Messner, E., *TBME Sept. 2018 1964-1974*
- Zonjy, B.**, see Theeranaew, W., *TBME Feb. 2018 371-377*
- Zonnino, A.**, see Farrens, A.J., *TBME July 2018 1595-1606*
- Zorn, L.**, Nageotte, F., Zanne, P., Legner, A., Dallemagne, B., Marescaux, J., and de Mathelin, M., A Novel Telemanipulated Robotic Assistant for Surgical Endoscopy: Preclinical Application to ESD; *TBME April 2018 797-808*
- Zou, X.**, see Huang, N., *TBME July 2018 1452-1459*
- Zoubir, A.M.**, see Schack, T., *TBME June 2018 1213-1225*
- Zubajlo, R.**, see Zakrzewski, A.M., *TBME Nov. 2018 2405-2416*
- Zuo, W.**, see Luo, G., *TBME Sept. 2018 1924-1934*
- Zurbuchen, A.**, Haeblerlin, A., Bereuter, L., Pfenniger, A., Bosshard, S., Kernen, M., Philipp Heinisch, P., Fuhrer, J., and Vogel, R., Endocardial Energy Harvesting by Electromagnetic Induction; *TBME Feb. 2018 424-430*
- Modeling, Detecting, and Tracking Freezing of Gait in Parkinson Disease Using Inertial Sensors. *Prateek, G.V.*, +, *TBME Oct. 2018 2152-2161*
- Muscle Activation and Inertial Motion Data for Noninvasive Classification of Activities of Daily Living. *Totty, M.S.*, +, *TBME May 2018 1069-1076*
- Acoustic noise**
- In-Ear Audio Wearable: Measurement of Heart and Breathing Rates for Health and Safety Monitoring. *Martin, A.*, +, *TBME June 2018 1256-1263*
- Acoustic signal processing**
- Acoustical Emission Analysis by Unsupervised Graph Mining: A Novel Biomarker of Knee Health Status. *Hersek, S.*, +, *TBME June 2018 1291-1300*
- Computerized Lung Sound Screening for Pediatric Auscultation in Noisy Field Environments. *Emmanouilidou, D.*, +, *TBME July 2018 1564-1574*
- Acoustic tomography**
- Conductivity Anisotropy Influence on Acoustic Sources for Magnetoacoustic Tomography With Magnetic Induction. *Yu, Z.*, +, *TBME Nov. 2018 2512-2518*
- Magneto-acousto-electrical Measurement Based Electrical Conductivity Reconstruction for Tissues. *Zhou, Y.*, +, *TBME May 2018 1086-1094*
- Acoustics**
- PMN-PT Single Crystal Ultrasonic Transducer With Half-Concave Geometric Design for IVUS Imaging. *Fei, C.*, +, *TBME Sept. 2018 2087-2092*
- Actuators**
- Optimal Mixed Tracking/Impedance Control With Application to Transfemoral Prostheses With Energy Regeneration. *Khademi, G.*, +, *TBME April 2018 894-910*
- Adaptation models**
- A Quasi-Static Boundary Element Approach With Fast Multipole Acceleration for High-Resolution Bioelectromagnetic Models. *Makarov, S.N.*, +, *TBME Dec. 2018 2675-2683*
- Adaptive filters**
- In-Ear Audio Wearable: Measurement of Heart and Breathing Rates for Health and Safety Monitoring. *Martin, A.*, +, *TBME June 2018 1256-1263*
- Adhesion**
- A Method for Collecting Single Cell Suspensions Using an Ultrasonic Pump. *Nakao, M.*, +, *TBME Jan. 2018 224-231*
- Aging**
- Detecting Vascular Age Using the Analysis of Peripheral Pulse. *Sorelli, M.*, +, *TBME Dec. 2018 2742-2750*
- Analytical models**
- Cardiac Motion Evolution Model for Analysis of Functional Changes Using Tensor Decomposition and Cross-Sectional Data. *McLeod, K.*, +, *TBME Dec. 2018 2769-2780*
- Distortion Distribution of Neural Spike Train Sequence Matching With Optogenetics. *Noel, A.*, +, *TBME Dec. 2018 2814-2826*
- Real-Time Visualization and Analysis of Clinicians' Performance During Palpation in Physical Examinations. *Granados, A.*, +, *TBME Sept. 2018 2042-2051*
- Antennas**
- Near-Field Inductive-Coupling Link to Power a Three-Dimensional Millimeter-Size Antenna for Brain Implantable Medical Devices. *Manoufali, M.*, +, *TBME Jan. 2018 4-14*
- Apertures**
- PMN-PT Single Crystal Ultrasonic Transducer With Half-Concave Geometric Design for IVUS Imaging. *Fei, C.*, +, *TBME Sept. 2018 2087-2092*
- Array signal processing**
- Double-Stage Delay Multiply and Sum Beamforming Algorithm: Application to Linear-Array Photoacoustic Imaging. *Mozaffarzadeh, M.*, +, *TBME Jan. 2018 31-42*
- Microbubble Localization for Three-Dimensional Superresolution Ultrasound Imaging Using Curve Fitting and Deconvolution Methods. *Foroosan, F.*, +, *TBME Dec. 2018 2692-2703*
- Arteries**
- Detecting Vascular Age Using the Analysis of Peripheral Pulse. *Sorelli, M.*, +, *TBME Dec. 2018 2742-2750*
- Noninvasive Blood Pressure Estimation Using Ultrasound and Simple Finite Element Models. *Zakrzewski, A.M.*, +, *TBME Sept. 2018 2011-2022*
- Artificial intelligence**
- Prediction of Hemorrhagic Transformation Severity in Acute Stroke From Source Perfusion MRI. *Yu, Y.*, +, *TBME Sept. 2018 2058-2065*
- Artificial limbs**
- Optimal Mixed Tracking/Impedance Control With Application to Transfemoral Prostheses With Energy Regeneration. *Khademi, G.*, +, *TBME April 2018 894-910*

SUBJECT INDEX

A

Aberrations

Super-Resolution Axial Localization of Ultrasound Scatter Using Multi-Focal Imaging. *Diamantis, K.*, +, *TBME Aug. 2018 1840-1851*

Absorption

Modeling Subcutaneous Absorption of Fast-Acting Insulin in Type 1 Diabetes. *Schiavon, M.*, +, *TBME Sept. 2018 2079-2086*

Visible Illumination Enhanced Nonenzymatic Glucose Photobiosensor Based on TiO₂ Nanorods Decorated With Au Nanoparticles. *Wang, S.*, +, *TBME Sept. 2018 2052-2057*

Acceleration

Inertial Sensing for Gait Event Detection and Transfemoral Prosthesis Control Strategy. *Ledoux, E.D.*, *TBME Dec. 2018 2704-2712*

Acceleration measurement

A Novel Accelerometer-Based Technique for Robust Detection of Walking Direction. *Shaikh, M.F.*, +, *TBME Aug. 2018 1740-1747*

Accelerometers

A Novel Accelerometer-Based Technique for Robust Detection of Walking Direction. *Shaikh, M.F.*, +, *TBME Aug. 2018 1740-1747*

- Turn Intent Detection For Control of a Lower Limb Prosthesis. *Pew, C.*, +, *TBME April 2018 789-796*
- User-Independent Intent Recognition for Lower Limb Prostheses Using Depth Sensing. *Massalin, Y.*, +, *TBME Aug. 2018 1759-1770*
- Artificial neural networks**
- Estimating Brain Connectivity With Varying-Length Time Lags Using a Recurrent Neural Network. *Wang, Y.*, +, *TBME Sept. 2018 1953-1963*
- Artificial organs**
- Event-Triggered Model Predictive Control for Embedded Artificial Pancreas Systems. *Chakrabarty, A.*, +, *TBME March 2018 575-586*
- Extremum Seeking Control for Personalized Zone Adaptation in Model Predictive Control for Type 1 Diabetes. *Cao, Z.*, +, *TBME Aug. 2018 1859-1870*
- Toward a Run-to-Run Adaptive Artificial Pancreas: In Silico Results. *Tof-fanin, C.*, +, *TBME March 2018 479-488*
- Atmospheric modeling**
- Ex Vivo* Modeling of Perioperative Air Leaks in Porcine Lungs. *Klassen, C.*, +, *TBME Dec. 2018 2827-2836*
- Auditory evoked potentials**
- Ear-EEG-Based Objective Hearing Threshold Estimation Evaluated on Normal Hearing Subjects. *Christensen, C.B.*, +, *TBME May 2018 1026-1034*
- Effect of Tissue Heterogeneity on the Transmembrane Potential of Type-1 Spiral Ganglion Neurons: A Simulation Study. *Sriperumbudur, K.K.*, +, *TBME March 2018 658-668*
- Pressure in the Cochlea During Infrared Irradiation. *Xia, N.*, +, *TBME July 2018 1575-1584*
- Auditory system**
- Magnetomotive Displacement of the Tympanic Membrane Using Magnetic Nanoparticles: Toward Enhancement of Sound Perception. *Huang, P.*, +, *TBME Dec. 2018 2837-2846*
- Autoregressive processes**
- Modeling Touch and Palpation Using Autoregressive Models. *Laufer, S.*, +, *TBME July 2018 1585-1594*
- Robust Nonlinear Causality Analysis of Nonstationary Multivariate Physiological Time Series. *Schack, T.*, +, *TBME June 2018 1213-1225*
- B**
- Band-pass filters**
- Automatic Detection of Retinal Lesions for Screening of Diabetic Retinopathy. *Kar, S.S.*, +, *TBME March 2018 608-618*
- Bandwidth**
- PMN-PT Single Crystal Ultrasonic Transducer With Half-Concave Geometric Design for IVUS Imaging. *Fei, C.*, +, *TBME Sept. 2018 2087-2092*
- Bayes methods**
- Generalized Adaptive Gaussian Markov Random Field for X-Ray Luminescence Computed Tomography. *Zhang, G.*, +, *TBME Sept. 2018 2130-2133*
- Joint Magnetic Calibration and Localization Based on Expectation Maximization for Tongue Tracking. *Lu, J.*, +, *TBME Jan. 2018 52-63*
- Reducing Sensor Noise in MEG and EEG Recordings Using Oversampled Temporal Projection. *Larson, E.*, +, *TBME May 2018 1002-1013*
- Reduction of Blood Glucose Measurements to Calibrate Subcutaneous Glucose Sensors: A Bayesian Multiday Framework. *Acciaroli, G.*, +, *TBME March 2018 587-595*
- Robust Multicontrast MRI Spleen Segmentation for Splenomegaly Using Multi-Atlas Segmentation. *Huo, Y.*, +, *TBME Feb. 2018 336-343*
- Tractography-Based Score for Learning Effective Connectivity From Multimodal Imaging Data Using Dynamic Bayesian Networks. *Dang, S.*, +, *TBME May 2018 1057-1068*
- Belief networks**
- Tractography-Based Score for Learning Effective Connectivity From Multimodal Imaging Data Using Dynamic Bayesian Networks. *Dang, S.*, +, *TBME May 2018 1057-1068*
- Bending**
- A Flexure-Guided Piezo Drill for Penetrating the Zona Pellucida of Mammalian Oocytes. *Johnson, W.*, +, *TBME March 2018 678-686*
- Biocoustics**
- Computerized Lung Sound Screening for Pediatric Auscultation in Noisy Field Environments. *Emmanouilidou, D.*, +, *TBME July 2018 1564-1574*
- In-Ear Audio Wearable: Measurement of Heart and Breathing Rates for Health and Safety Monitoring. *Martin, A.*, +, *TBME June 2018 1256-1263*
- Using Machine Learning and a Combination of Respiratory Flow, Laryngeal Motion, and Swallowing Sounds to Classify Safe and Unsafe Swallowing. *Inoue, K.*, +, *TBME Nov. 2018 2529-2541*
- Biochemistry**
- Event-Triggered Model Predictive Control for Embedded Artificial Pancreas Systems. *Chakrabarty, A.*, +, *TBME March 2018 575-586*
- Extremum Seeking Control for Personalized Zone Adaptation in Model Predictive Control for Type 1 Diabetes. *Cao, Z.*, +, *TBME Aug. 2018 1859-1870*
- Metabolic Effects Induced by a Kinematically Compatible Hip Exoskeleton During STS. *Junius, K.*, +, *TBME June 2018 1399-1409*
- Molecularly Imprinted Polymer-Based Electrochemical Biosensor for Bone Loss Detection. *Afsarimanesh, N.*, +, *TBME June 2018 1264-1271*
- Reduction of Blood Glucose Measurements to Calibrate Subcutaneous Glucose Sensors: A Bayesian Multiday Framework. *Acciaroli, G.*, +, *TBME March 2018 587-595*
- Type-1 Diabetes Patient Decision Simulator for In Silico Testing Safety and Effectiveness of Insulin Treatments. *Vettoretti, M.*, +, *TBME June 2018 1281-1290*
- Biodiffusion**
- Accelerated Cardiac Diffusion Tensor Imaging Using Joint Low-Rank and Sparsity Constraints. *Ma, S.*, +, *TBME Oct. 2018 2219-2230*
- Tractography-Based Score for Learning Effective Connectivity From Multimodal Imaging Data Using Dynamic Bayesian Networks. *Dang, S.*, +, *TBME May 2018 1057-1068*
- Bioelectric phenomena**
- A Three-Dimensional Arrayed Microfluidic Blood-Brain Barrier Model With Integrated Electrical Sensor Array. *Jeong, S.*, +, *TBME Feb. 2018 431-439*
- Characterization of Conductivity Changes During High-Frequency Irreversible Electroporation for Treatment Planning. *Zhao, Y.*, +, *TBME Aug. 2018 1810-1819*
- Characterization of Nonlinearity and Dispersion in Tissue Impedance During High-Frequency Electroporation. *Bhonsle, S.*, +, *TBME Oct. 2018 2190-2201*
- Conductivity Anisotropy Influence on Acoustic Sources for Magnetoacoustic Tomography With Magnetic Induction. *Yu, Z.*, +, *TBME Nov. 2018 2512-2518*
- Developing a Nonstationary Computational Framework With Application to Modeling Dynamic Modulations in Neural Spiking Responses. *Akbarian, A.*, +, *TBME Feb. 2018 241-253*
- From Cell to Tissue Properties—Modeling Skin Electroporation With Pore and Local Transport Region Formation. *Dermol-Cerne, J.*, +, *TBME Feb. 2018 458-468*
- Improved Visualization of Gastrointestinal Slow Wave Propagation Using a Novel Wavefront-Orientation Interpolation Technique. *Mayne, T.P.*, +, *TBME Feb. 2018 319-326*
- Micromagnetic Stimulation of the Mouse Auditory Cortex *In Vivo* Using an Implantable Solenoid System. *Minusa, S.*, +, *TBME June 2018 1301-1310*
- Modeling of Electroporation Induced by Pulsed Electric Fields in Irregularly Shaped Cells. *Mescia, L.*, +, *TBME Feb. 2018 414-423*
- Near-Field Inductive-Coupling Link to Power a Three-Dimensional Millimeter-Size Antenna for Brain Implantable Medical Devices. *Manoufali, M.*, +, *TBME Jan. 2018 4-14*
- Placing Sites on the Edge of Planar Silicon Microelectrodes Enhances Chronic Recording Functionality. *Lee, H.C.*, +, *TBME June 2018 1245-1255*
- Skull Modeling Effects in Conductivity Estimates Using Parametric Electrical Impedance Tomography. *Fernandez-Corazza, M.*, +, *TBME Aug. 2018 1785-1797*
- Stimulation Efficiency With Decaying Exponential Waveforms in a Wirelessly Powered Switched-Capacitor Discharge Stimulation System. *Lee, H.*, +, *TBME May 2018 1095-1106*
- The ICVSIE: A General Purpose Integral Equation Method for Bio-Electromagnetic Analysis. *Gomez, L.J.*, +, *TBME March 2018 565-574*
- Three-Dimensional Noninvasive Imaging of Ventricular Arrhythmias in Patients With Premature Ventricular Contractions. *Yu, L.*, +, *TBME July 2018 1495-1503*
- Treatment of Cancer *In Vitro* Using Radiation and High-Frequency Bursts of Submicrosecond Electrical Pulses. *Sano, M.B.*, +, *TBME April 2018 928-935*
- Ultra-Wideband Millimeter-Wave Dielectric Characteristics of Freshly Excised Normal and Malignant Human Skin Tissues. *Mirbeik-Sabzevari, A.*, +, *TBME June 2018 1320-1329*
- Bioelectric potentials**
- A Functional-Genetic Scheme for Seizure Forecasting in Canine Epilepsy. *Bou Assi, E.*, +, *TBME June 2018 1339-1348*

- A Potential-Based Inverse Spectral Method to Noninvasively Localize Discordant Distributions of Alternans on the Heart From the ECG. *Coll-Font, J.*, +, *TBME July 2018 1554-1563*
- Adaptive Estimation of the Neural Activation Extent in Computational Volume Conductor Models of Deep Brain Stimulation. *Schmidt, C.*, +, *TBME Aug. 2018 1828-1839*
- An Efficient Integral-Based Method for Three-Dimensional MR-EPT and the Calculation of the RF-Coil-Induced B_z Field. *Guo, L.*, +, *TBME Feb. 2018 282-293*
- Arrhythmia Mechanism and Scaling Effect on the Spectral Properties of Electroanatomical Maps With Manifold Harmonics. *Sanroman-Junquera, M.*, +, *TBME April 2018 723-732*
- Automatic Identification of Reentry Mechanisms and Critical Sites During Atrial Tachycardia by Analyzing Areas of Activity. *Oesterlein, T.G.*, +, *TBME Oct. 2018 2334-2344*
- Characterization and Modeling of Tissue Thermal Conductivity During an Electrosurgical Joining Process. *Yang, C.*, +, *TBME Feb. 2018 365-370*
- Closed-Loop Vagus Nerve Stimulation Based on State Transition Models. *Romero-Ugalde, H.M.*, +, *TBME July 2018 1630-1638*
- Cuffless Estimation of Blood Pressure: Importance of Variability in Blood Pressure Dependence of Arterial Stiffness Across Individuals and Measurement Sites. *Butlin, M.*, +, *TBME Nov. 2018 2377-2383*
- Dedicated Entropy Measures for Early Assessment of Pregnancy Progression From Single-Channel Electrohysterography. *Mischi, M.*, +, *TBME April 2018 875-884*
- Dielectric Properties of *Ex Vivo* Porcine Liver Tissue Characterized at Frequencies Between 5 and 500 kHz When Heated at Different Rates. *Deas Yero, D.*, +, *TBME Nov. 2018 2560-2568*
- Electrothermal Equivalent Three-Dimensional Finite-Element Model of a Single Neuron. *Cinelli, I.*, +, *TBME June 2018 1373-1381*
- Enhancement of Intercellular Electrical Synchronization by Conductive Materials in Cardiac Tissue Engineering. *Wu, Y.*, +, *TBME Feb. 2018 264-272*
- Epidermal Electrode Technology for Detecting Ultrasonic Perturbation of Sensory Brain Activity. *Huang, S.*, +, *TBME June 2018 1272-1280*
- Extracorporeal Stimulation of Sacral Nerve Roots for Observation of Pelvic Autonomic Nerve Integrity: Description of a Novel Methodological Setup. *Moszkowski, T.*, +, *TBME March 2018 550-555*
- Identification of Ion Currents Components Generating Field Potential Recorded in MEA From hiPSC-CM. *Raphel, F.*, +, *TBME June 2018 1311-1319*
- Information-Theoretic Approach and Fundamental Limits of Resolving Two Closely Timed Neuronal Spikes in Mouse Brain Calcium Imaging. *Soltanian-Zadeh, S.*, +, *TBME Nov. 2018 2428-2439*
- Low-to-High Cross-Frequency Coupling in the Electrical Rhythms as Biomarker for Hyperexcitable Neuroglial Networks of the Brain. *Grigorovsky, V.*, +, *TBME July 2018 1504-1515*
- Model-Based Analysis of Electrode Placement and Pulse Amplitude for Hippocampal Stimulation. *Bingham, C.S.*, +, *TBME Oct. 2018 2278-2289*
- Multiple Instance Dictionary Learning for Beat-to-Beat Heart Rate Monitoring From Ballistocardiograms. *Jiao, C.*, +, *TBME Nov. 2018 2634-2648*
- Pressure in the Cochlea During Infrared Irradiation. *Xia, N.*, +, *TBME July 2018 1575-1584*
- Stimulation Efficiency With Decaying Exponential Waveforms in a Wirelessly Powered Switched-Capacitor Discharge Stimulation System. *Lee, H.*, +, *TBME May 2018 1095-1106*
- Three-Dimensional Noninvasive Imaging of Ventricular Arrhythmias in Patients With Premature Ventricular Contractions. *Yu, L.*, +, *TBME July 2018 1495-1503*
- Two-Wire Bus Combining Full Duplex Body-Sensor Network and Multilead Biopotential Measurements. *Rapin, M.*, +, *TBME Jan. 2018 113-122*
- Biological effects of fields**
- Characterization of Nonlinearity and Dispersion in Tissue Impedance During High-Frequency Electroporation. *Bhonsle, S.*, +, *TBME Oct. 2018 2190-2201*
- Biological effects of laser radiation**
- Pressure in the Cochlea During Infrared Irradiation. *Xia, N.*, +, *TBME July 2018 1575-1584*
- Biological effects of microwaves**
- Effects of Ablation (Radio Frequency, Cryo, Microwave) on Physiologic Properties of the Human Vastus Lateralis. *Singal, A.*, +, *TBME Oct. 2018 2202-2209*
- Biological effects of radiation**
- Dielectric Properties of *Ex Vivo* Porcine Liver Tissue Characterized at Frequencies Between 5 and 500 kHz When Heated at Different Rates. *Deas Yero, D.*, +, *TBME Nov. 2018 2560-2568*
- Biological fluid dynamics**
- An MRI-Compatible Hydrodynamic Simulator of Cerebrospinal Fluid Motion in the Cervical Spine. *Thyagaraj, S.*, +, *TBME July 2018 1516-1523*
- Biological NMR**
- Single-Scan High-Resolution 2-D J-Resolved Spectroscopy in Inhomogeneous Magnetic Fields. *Wang, K.*, +, *TBME Feb. 2018 440-448*
- Biological organs**
- Electromechanical Coupling Factor of Breast Tissue as a Biomarker for Breast Cancer. *Park, K.*, +, *TBME Jan. 2018 96-103*
- Extracorporeal Stimulation of Sacral Nerve Roots for Observation of Pelvic Autonomic Nerve Integrity: Description of a Novel Methodological Setup. *Moszkowski, T.*, +, *TBME March 2018 550-555*
- Improved Visualization of Gastrointestinal Slow Wave Propagation Using a Novel Wavefront-Orientation Interpolation Technique. *Mayne, T.P.*, +, *TBME Feb. 2018 319-326*
- Robust Multicontrast MRI Spleen Segmentation for Splenomegaly Using Multi-Atlas Segmentation. *Huo, Y.*, +, *TBME Feb. 2018 336-343*
- Uncertainty-Aware Organ Classification for Surgical Data Science Applications in Laparoscopy. *Moccia, S.*, +, *TBME Nov. 2018 2649-2659*
- Biological system modeling**
- An Optimization-Based Algorithm for the Construction of Cardiac Purkinje Network Models. *Ulysses, J.N.*, +, *TBME Dec. 2018 2760-2768*
- RF Channel Modeling for Implant-to-Implant Communication and Implant to Subcutaneous Implant Communication for Future Leadless Cardiac Pacemakers. *Bose, P.*, +, *TBME Dec. 2018 2798-2807*
- Three-Dimensional Model of Electroretinogram Field Potentials in the Rat Eye. *Selner, A.N.*, +, *TBME Dec. 2018 2781-2789*
- Biological techniques**
- A High-Resolution Minimicroscope System for Wireless Real-Time Monitoring. *Wang, Z.*, +, *TBME July 2018 1524-1531*
- A Method for Collecting Single Cell Suspensions Using an Ultrasonic Pump. *Nakao, M.*, +, *TBME Jan. 2018 224-231*
- Feature-Based Representation Improves Color Decomposition and Nuclear Detection Using a Convolutional Neural Network. *Khoshdeli, M.*, +, *TBME March 2018 625-634*
- Biological tissues**
- In Vivo* Superresolution Imaging of Neuronal Structure in the Mouse Brain. *Urban, B.E.*, +, *TBME Jan. 2018 232-238*
- A Centerline-Based Model Morphing Algorithm for Patient-Specific Finite Element Modeling of the Left Ventricle. *Behdadfar, S.*, +, *TBME June 2018 1391-1398*
- A Delayed-Excitation Data Acquisition Method for High-Frequency Ultrasound Imaging. *Qiu, W.*, +, *TBME Jan. 2018 15-20*
- A Time-Reversal Imaging System for Breast Screening: Theory and Initial Phantom Results. *Yousefina, M.*, +, *TBME Nov. 2018 2542-2551*
- Adaptive Estimation of the Neural Activation Extent in Computational Volume Conductor Models of Deep Brain Stimulation. *Schmidt, C.*, +, *TBME Aug. 2018 1828-1839*
- Automated *In Vivo* Sub-Hertz Analysis of Viscoelasticity (SAVE) for Evaluation of Breast Lesions. *Bayat, M.*, +, *TBME Oct. 2018 2237-2247*
- Automatic Identification of Reentry Mechanisms and Critical Sites During Atrial Tachycardia by Analyzing Areas of Activity. *Oesterlein, T.G.*, +, *TBME Oct. 2018 2334-2344*
- Characterization of Conductivity Changes During High-Frequency Irreversible Electroporation for Treatment Planning. *Zhao, Y.*, +, *TBME Aug. 2018 1810-1819*
- Conductivity Anisotropy Influence on Acoustic Sources for Magnetoacoustic Tomography With Magnetic Induction. *Yu, Z.*, +, *TBME Nov. 2018 2512-2518*
- Dielectric Properties of *Ex Vivo* Porcine Liver Tissue Characterized at Frequencies Between 5 and 500 kHz When Heated at Different Rates. *Deas Yero, D.*, +, *TBME Nov. 2018 2560-2568*
- Effect of Tissue Heterogeneity on the Transmembrane Potential of Type-1 Spiral Ganglion Neurons: A Simulation Study. *Sriperumbudur, K.K.*, +, *TBME March 2018 658-668*
- Effects of Ablation (Radio Frequency, Cryo, Microwave) on Physiologic Properties of the Human Vastus Lateralis. *Singal, A.*, +, *TBME Oct. 2018 2202-2209*
- Full Modeling of High-Intensity Focused Ultrasound and Thermal Heating in the Kidney Using Realistic Patient Models. *Suomi, V.*, +, *TBME May 2018 969-979*
- Full Modeling of High-Intensity Focused Ultrasound and Thermal Heating in the Kidney Using Realistic Patient Models. *Suomi, V.*, +, *TBME Nov. 2018 2660-2670*
- Learning Based Segmentation of CT Brain Images: Application to Postoperative Hydrocephalic Scans. *Cherukuri, V.*, +, *TBME Aug. 2018 1871-1884*

- Magneto-acousto-electrical Measurement Based Electrical Conductivity Reconstruction for Tissues. Zhou, Y., +, *TBME May 2018 1086-1094*
- Micromagnetic Stimulation of the Mouse Auditory Cortex *In Vivo* Using an Implantable Solenoid System. Minusa, S., +, *TBME June 2018 1301-1310*
- Microwave Breast Imaging: Clinical Advances and Remaining Challenges. O Loughlin, D., +, *TBME Nov. 2018 2580-2590*
- Model-Based Analysis of Electrode Placement and Pulse Amplitude for Hippocampal Stimulation. Bingham, C.S., +, *TBME Oct. 2018 2278-2289*
- Multiaccess *In Vivo* Biotelemetry Using Sonomicrometry and M-Scan Ultrasound Imaging. Kondapalli, S.H., +, *TBME Jan. 2018 149-158*
- Near-Field Inductive-Coupling Link to Power a Three-Dimensional Millimeter-Size Antenna for Brain Implantable Medical Devices. Manoufali, M., +, *TBME Jan. 2018 4-14*
- Placing Sites on the Edge of Planar Silicon Microelectrodes Enhances Chronic Recording Functionality. Lee, H.C., +, *TBME June 2018 1245-1255*
- Real-Time Error Control for Surgical Simulation. Bui, H.P., +, *TBME March 2018 596-607*
- Real-Time Three-Dimensional Microwave Monitoring of Interstitial Thermal Therapy. Chen, G., +, *TBME March 2018 528-538*
- Stochastic Modeling of Temporal Enhanced Ultrasound: Impact of Temporal Properties on Prostate Cancer Characterization. Nahlawi, L., +, *TBME Aug. 2018 1798-1809*
- The ICVSIE: A General Purpose Integral Equation Method for Bio-Electromagnetic Analysis. Gomez, L.J., +, *TBME March 2018 565-574*
- Unambiguous Identification and Visualization of an Acoustically Active Catheter by Ultrasound Imaging in Real Time: Theory, Algorithm, and Phantom Experiments. Kumar, V., +, *TBME July 2018 1468-1475*
- Uncertainty-Aware Organ Classification for Surgical Data Science Applications in Laparoscopy. Moccia, S., +, *TBME Nov. 2018 2649-2659*
- Biology computing**
- A Machine Learning Approach to Automated Gait Analysis for the Noldus Catwalk System. Frohlich, H., +, *TBME May 2018 1133-1139*
- Feature-Based Representation Improves Color Decomposition and Nuclear Detection Using a Convolutional Neural Network. Khoshdeli, M., +, *TBME March 2018 625-634*
- Biomagnetism**
- Magneto-acousto-electrical Measurement Based Electrical Conductivity Reconstruction for Tissues. Zhou, Y., +, *TBME May 2018 1086-1094*
- Micromagnetic Stimulation of the Mouse Auditory Cortex *In Vivo* Using an Implantable Solenoid System. Minusa, S., +, *TBME June 2018 1301-1310*
- The ICVSIE: A General Purpose Integral Equation Method for Bio-Electromagnetic Analysis. Gomez, L.J., +, *TBME March 2018 565-574*
- Biomechanics**
- A Centerline-Based Model Morphing Algorithm for Patient-Specific Finite Element Modeling of the Left Ventricle. Behdadfar, S., +, *TBME June 2018 1391-1398*
- A Flexure-Guided Piezo Drill for Penetrating the Zona Pellucida of Mammalian Oocytes. Johnson, W., +, *TBME March 2018 678-686*
- Acoustical Emission Analysis by Unsupervised Graph Mining: A Novel Biomarker of Knee Health Status. Hersek, S., +, *TBME June 2018 1291-1300*
- An Interactive Simulator for Imposing Virtual Musculoskeletal Dynamics. Hasson, C.J., *TBME March 2018 539-549*
- Automated *In Vivo* Sub-Hertz Analysis of Viscoelasticity (SAVE) for Evaluation of Breast Lesions. Bayat, M., +, *TBME Oct. 2018 2237-2247*
- Characterization and Modeling of Tissue Thermal Conductivity During an Electrosurgical Joining Process. Yang, C., +, *TBME Feb. 2018 365-370*
- Cuffless Estimation of Blood Pressure: Importance of Variability in Blood Pressure Dependence of Arterial Stiffness Across Individuals and Measurement Sites. Butlin, M., +, *TBME Nov. 2018 2377-2383*
- Electromechanical Coupling Factor of Breast Tissue as a Biomarker for Breast Cancer. Park, K., +, *TBME Jan. 2018 96-103*
- Feasibility of a Biomechanically-Assistive Garment to Reduce Low Back Loading During Leaning and Lifting. Lamers, E.P., +, *TBME Aug. 2018 1674-1680*
- Force Closure Mechanism Modeling for Musculoskeletal Multibody Simulation. Geier, A., +, *TBME Nov. 2018 2471-2482*
- Influence of Shoulder Kinematic Estimate on Joint and Muscle Mechanics Predicted by Musculoskeletal Model. Blache, Y., +, *TBME April 2018 715-722*
- Joint Magnetic Calibration and Localization Based on Expectation Maximization for Tongue Tracking. Lu, J., +, *TBME Jan. 2018 52-63*
- Limb Position Tolerant Pattern Recognition for Myoelectric Prosthesis Control with Adaptive Sparse Representations From Extreme Learning. Betthausser, J.L., +, *TBME April 2018 770-778*
- Mechanical Imaging of Soft Tissues With a Highly Compliant Tactile Sensing Array. Li, B., +, *TBME March 2018 687-697*
- Molecularly Imprinted Polymer-Based Electrochemical Biosensor for Bone Loss Detection. Afsarimanesh, N., +, *TBME June 2018 1264-1271*
- Multiaccess *In Vivo* Biotelemetry Using Sonomicrometry and M-Scan Ultrasound Imaging. Kondapalli, S.H., +, *TBME Jan. 2018 149-158*
- Muscle Activation and Inertial Motion Data for Noninvasive Classification of Activities of Daily Living. Totty, M.S., +, *TBME May 2018 1069-1076*
- Orbit Segmentation by Surface Reconstruction With Automatic Sliced Vertex Screening. Hsung, T., +, *TBME April 2018 828-838*
- Real-Time Error Control for Surgical Simulation. Bui, H.P., +, *TBME March 2018 596-607*
- Robust Real-Time Musculoskeletal Modeling Driven by Electromyograms. Durandau, G., +, *TBME March 2018 556-564*
- Sockets for Limb Prostheses: A Review of Existing Technologies and Open Challenges. Paterno, L., +, *TBME Sept. 2018 1996-2010*
- Stimulation Efficiency With Decaying Exponential Waveforms in a Wirelessly Powered Switched-Capacitor Discharge Stimulation System. Lee, H., +, *TBME May 2018 1095-1106*
- Translational Motion Tracking of Leg Joints for Enhanced Prediction of Walking Tasks. Stolyarov, R., +, *TBME April 2018 763-769*
- Biomedical communication**
- Interoperable End-to-End Remote Patient Monitoring Platform Based on IEEE 11073 PHD and ZigBee Health Care Profile. Clarke, M., +, *TBME May 2018 1014-1025*
- Type-1 Diabetes Patient Decision Simulator for *In Silico* Testing Safety and Effectiveness of Insulin Treatments. Vettoretti, M., +, *TBME June 2018 1281-1290*
- Biomedical electrodes**
- A Three-Dimensional Arrayed Microfluidic Blood-Brain Barrier Model With Integrated Electrical Sensor Array. Jeong, S., +, *TBME Feb. 2018 431-439*
- Arrhythmia Mechanism and Scaling Effect on the Spectral Properties of Electroanatomical Maps With Manifold Harmonics. Sanroman-Junquera, M., +, *TBME April 2018 723-732*
- Characterization of Nonlinearity and Dispersion in Tissue Impedance During High-Frequency Electroporation. Bhonele, S., +, *TBME Oct. 2018 2190-2201*
- Consistency of Long-Term Subdural Electroencephalography in Humans. Nurse, E.S., +, *TBME Feb. 2018 344-352*
- Dedicated Entropy Measures for Early Assessment of Pregnancy Progression From Single-Channel Electrohysterography. Mischi, M., +, *TBME April 2018 875-884*
- Dielectric Properties of *Ex Vivo* Porcine Liver Tissue Characterized at Frequencies Between 5 and 500 kHz When Heated at Different Rates. Deas Yero, D., +, *TBME Nov. 2018 2560-2568*
- Ear-EEG-Based Objective Hearing Threshold Estimation Evaluated on Normal Hearing Subjects. Christensen, C.B., +, *TBME May 2018 1026-1034*
- Epidermal Electrode Technology for Detecting Ultrasonic Perturbation of Sensory Brain Activity. Huang, S., +, *TBME June 2018 1272-1280*
- Extracorporeal Stimulation of Sacral Nerve Roots for Observation of Pelvic Autonomic Nerve Integrity: Description of a Novel Methodological Setup. Moszkowski, T., +, *TBME March 2018 550-555*
- Identification of Ion Currents Components Generating Field Potential Recorded in MEA From hiPSC-CM. Raphael, F., +, *TBME June 2018 1311-1319*
- Impedance Measures During *in vitro* Cochlear Implantation Predict Array Positioning. Giardina, C.K., +, *TBME Feb. 2018 327-335*
- Improved Visualization of Gastrointestinal Slow Wave Propagation Using a Novel Wavefront-Oriented Interpolation Technique. Mayne, T.P., +, *TBME Feb. 2018 319-326*
- Low-to-High Cross-Frequency Coupling in the Electrical Rhythms as Biomarker for Hyperexcitable Neuroglial Networks of the Brain. Grigorenko, V., +, *TBME July 2018 1504-1515*
- Mechanical Imaging of Soft Tissues With a Highly Compliant Tactile Sensing Array. Li, B., +, *TBME March 2018 687-697*
- Model-Based Analysis of Electrode Placement and Pulse Amplitude for Hippocampal Stimulation. Bingham, C.S., +, *TBME Oct. 2018 2278-2289*
- Placing Sites on the Edge of Planar Silicon Microelectrodes Enhances Chronic Recording Functionality. Lee, H.C., +, *TBME June 2018 1245-1255*
- Reducing the Computational Complexity of EEG Source Localization With Cortical Patch Decomposition and Optimal Electrode Selection. Safavi, S.M., +, *TBME Oct. 2018 2298-2310*

- Stimulation Efficiency With Decaying Exponential Waveforms in a Wirelessly Powered Switched-Capacitor Discharge Stimulation System. *Lee, H.*, +, *TBME May 2018 1095-1106*
- Three-Dimensional Noninvasive Imaging of Ventricular Arrhythmias in Patients With Premature Ventricular Contractions. *Yu, L.*, +, *TBME July 2018 1495-1503*
- Two-Wire Bus Combining Full Duplex Body-Sensor Network and Multilead Biopotential Measurements. *Rapin, M.*, +, *TBME Jan. 2018 113-122*
- Biomedical electronics**
- Near-Field Inductive-Coupling Link to Power a Three-Dimensional Millimeter-Size Antenna for Brain Implantable Medical Devices. *Manoufali, M.*, +, *TBME Jan. 2018 4-14*
- Biomedical engineering**
- A High-Resolution Minimicroscope System for Wireless Real-Time Monitoring. *Wang, Z.*, +, *TBME July 2018 1524-1531*
- Biomedical equipment**
- A 750-MHz Electronically Tunable Resonator Using Microstrip Line Couplers for Electron Paramagnetic Resonance Imaging of a Mouse Tumor-Bearing Leg. *Amida, T.*, +, *TBME May 2018 1124-1132*
- Automatic Early-Onset Free Flap Failure Detection for Implantable Biomedical Devices. *Rothfuss, M.A.*, +, *TBME Oct. 2018 2290-2297*
- Cardio-Pulmonary Stethoscope: Clinical Validation With Heart Failure and Hemodialysis Patients. *Iskander, M.F.*, +, *TBME May 2018 1176-1180*
- Electromechanical Coupling Factor of Breast Tissue as a Biomarker for Breast Cancer. *Park, K.*, +, *TBME Jan. 2018 96-103*
- Micromagnetic Stimulation of the Mouse Auditory Cortex *In Vivo* Using an Implantable Solenoid System. *Minusa, S.*, +, *TBME June 2018 1301-1310*
- Multi-Imager Compatible, MR Safe, Remote Center of Motion Needle-Guide Robot. *Stoianovici, D.*, +, *TBME Jan. 2018 165-177*
- Near-Field Inductive-Coupling Link to Power a Three-Dimensional Millimeter-Size Antenna for Brain Implantable Medical Devices. *Manoufali, M.*, +, *TBME Jan. 2018 4-14*
- Noninvasive *In-Situ* Measurement of Blood Lactate Using Microwave Sensors. *Mason, A.*, +, *TBME March 2018 698-705*
- PARHELIA: Particle Filter-Based Heart Rate Estimation From Photoplethysmographic Signals During Physical Exercise. *Fujita, Y.*, +, *TBME Jan. 2018 189-198*
- Toward a Run-to-Run Adaptive Artificial Pancreas: In Silico Results. *Tof-fanin, C.*, +, *TBME March 2018 479-488*
- Using Microbubble as Contrast Agent for High-Energy X-Ray In-line Phase Contrast Imaging: Demonstration and Comparison Study. *Wu, D.*, +, *TBME May 2018 1117-1123*
- Biomedical image processing**
- An Optimization-Based Algorithm for the Construction of Cardiac Purkinje Network Models. *Ulysses, J.N.*, +, *TBME Dec. 2018 2760-2768*
- Biomedical imaging**
- Guest Editorial Special Issue on Deep Learning in Medical Imaging. *Shen, D.*, +, *TBME Sept. 2018 1898-1899*
- Medical Image Synthesis with Deep Convolutional Adversarial Networks. *Nie, D.*, +, *TBME Dec. 2018 2720-2730*
- Microbubble Localization for Three-Dimensional Superresolution Ultrasound Imaging Using Curve Fitting and Deconvolution Methods. *Faroozan, F.*, +, *TBME Dec. 2018 2692-2703*
- Microwave Breast Imaging: Clinical Advances and Remaining Challenges. *O Loughlin, D.*, +, *TBME Nov. 2018 2580-2590*
- Pathogen Detection Using Frequency Domain Fluorescent Lifetime Measurements. *Yahav, G.*, +, *TBME Dec. 2018 2731-2741*
- Biomedical materials**
- Enhancement of Intercellular Electrical Synchronization by Conductive Materials in Cardiac Tissue Engineering. *Wu, Y.*, +, *TBME Feb. 2018 264-272*
- Biomedical measurement**
- A Procedure for the Automatic Analysis of High-Resolution Manometry Data to Support the Clinical Diagnosis of Esophageal Motility Disorders. *Frigo, A.*, +, *TBME July 2018 1476-1485*
- Acoustical Emission Analysis by Unsupervised Graph Mining: A Novel Biomarker of Knee Health Status. *Hersek, S.*, +, *TBME June 2018 1291-1300*
- An Ambulatory Gait Monitoring System with Activity Classification and Gait Parameter Calculation Based on a Single Foot Inertial Sensor. *Song, M.*, +, *TBME April 2018 885-893*
- Cardio-Pulmonary Stethoscope: Clinical Validation With Heart Failure and Hemodialysis Patients. *Iskander, M.F.*, +, *TBME May 2018 1176-1180*
- Distortion Distribution of Neural Spike Train Sequence Matching With Optogenetics. *Noel, A.*, +, *TBME Dec. 2018 2814-2826*
- Extremum Seeking Control for Personalized Zone Adaptation in Model Predictive Control for Type 1 Diabetes. *Cao, Z.*, +, *TBME Aug. 2018 1859-1870*
- From Cell to Tissue Properties—Modeling Skin Electroporation With Pore and Local Transport Region Formation. *Dermol-Cerne, J.*, +, *TBME Feb. 2018 458-468*
- Generalized Adaptive Gaussian Markov Random Field for X-Ray Luminescence Computed Tomography. *Zhang, G.*, +, *TBME Sept. 2018 2130-2133*
- GrIFT: A Device for Quantifying Physiological and Pathological Mirror Movements in Children. *Jaspers, E.*, +, *TBME April 2018 857-865*
- Identification of Ion Currents Components Generating Field Potential Recorded in MEA From hiPSC-CM. *Raphel, F.*, +, *TBME June 2018 1311-1319*
- Impedance Measures During *in vitro* Cochlear Implantation Predict Array Positioning. *Giardina, C.K.*, +, *TBME Feb. 2018 327-335*
- Instantaneous Transfer Entropy for the Study of Cardiovascular and Cardiorespiratory Nonstationary Dynamics. *Valenza, G.*, +, *TBME May 2018 1077-1085*
- Magnet-Assisted Hydraulic Bougienage for Correction of Long-Gap Esophageal Atresia. *Noh, M.*, +, *TBME Oct. 2018 2178-2189*
- Mechanical Imaging of Soft Tissues With a Highly Compliant Tactile Sensing Array. *Li, B.*, +, *TBME March 2018 687-697*
- Noninvasive *In-Situ* Measurement of Blood Lactate Using Microwave Sensors. *Mason, A.*, +, *TBME March 2018 698-705*
- Novel Modeling of Somatosensory Evoked Potentials for the Assessment of Spinal Cord Injury. *Mir, H.*, +, *TBME March 2018 511-520*
- Numerical Model Reduction for the Prediction of Interface Pressure Applied by Compression Bandages on the Lower Leg. *Chassagne, F.*, +, *TBME Feb. 2018 449-457*
- Pressure in the Cochlea During Infrared Irradiation. *Xia, N.*, +, *TBME July 2018 1575-1584*
- Reduction of Blood Glucose Measurements to Calibrate Subcutaneous Glucose Sensors: A Bayesian Multiday Framework. *Acciaroli, G.*, +, *TBME March 2018 587-595*
- Sleep-Dependent Directional Coupling of Cardiorespiratory System in Patients With Obstructive Sleep Apnea. *Yoon, H.*, +, *TBME Dec. 2018 2847-2854*
- Toward a Run-to-Run Adaptive Artificial Pancreas: In Silico Results. *Tof-fanin, C.*, +, *TBME March 2018 479-488*
- Type-1 Diabetes Patient Decision Simulator for In Silico Testing Safety and Effectiveness of Insulin Treatments. *Vettoretti, M.*, +, *TBME June 2018 1281-1290*
- Uncertainty in Limb Configuration Makes Minimal Contribution to Errors Between Observed and Predicted Forces in a Musculoskeletal Model of the Rat Hindlimb. *Wei, Q.*, +, *TBME Feb. 2018 469-476*
- Biomedical monitoring**
- Ex Vivo* Modeling of Perioperative Air Leaks in Porcine Lungs. *Klassen, C.*, +, *TBME Dec. 2018 2827-2836*
- A Robust Fusion Model for Estimating Respiratory Rate From Photoplethysmography and Electrocardiography. *Birrenkott, D.A.*, +, *TBME Sept. 2018 2033-2041*
- Electroencephalogram Based Detection of Deep Sedation in ICU Patients Using Atomic Decomposition. *Nagaraj, S.B.*, +, *TBME Dec. 2018 2684-2691*
- Electroencephalogram Based Detection of Deep Sedation in ICU Patients Using Atomic Decomposition. *Nagaraj, S.B.*, +, *TBME Dec. 2018 2684-2691*
- Biomedical MRI**
- A 750-MHz Electronically Tunable Resonator Using Microstrip Line Couplers for Electron Paramagnetic Resonance Imaging of a Mouse Tumor-Bearing Leg. *Amida, T.*, +, *TBME May 2018 1124-1132*
- A Cascaded Deep Convolutional Neural Network for Joint Segmentation and Genotype Prediction of Brainstem Gliomas. *Liu, J.*, +, *TBME Sept. 2018 1943-1952*
- A Hybrid Image Registration and Matching Framework for Real-Time Motion Tracking in MRI-Guided Radiotherapy. *Seregni, M.*, +, *TBME Jan. 2018 131-139*
- Accelerated Cardiac Diffusion Tensor Imaging Using Joint Low-Rank and Sparsity Constraints. *Ma, S.*, +, *TBME Oct. 2018 2219-2230*
- Adaptive Sparse Multiple Canonical Correlation Analysis With Application to Imaging (Epi)Genomics Study of Schizophrenia. *Hu, W.*, +, *TBME Feb. 2018 390-399*
- An Adjustable-Length Dipole Using Forced-Current Excitation for 7T MR. *Cui, J.*, +, *TBME Oct. 2018 2259-2266*

- An Efficient Integral-Based Method for Three-Dimensional MR-EPT and the Calculation of the RF-Coil-Induced B_2 Field. *Guo, L.*, +, *TBME Feb. 2018 282-293*
- An MRI-Compatible Hydrodynamic Simulator of Cerebrospinal Fluid Motion in the Cervical Spine. *Thyagaraj, S.*, +, *TBME July 2018 1516-1523*
- Automatic Temporal Segmentation of Vessels of the Brain Using 4D ASL MRA Images. *Phellan, R.*, +, *TBME July 2018 1486-1494*
- Brain MR Image Restoration Using an Automatic Trilateral Filter With GPU-Based Acceleration. *Chang, H.*, +, *TBME Feb. 2018 400-413*
- Deep Residual Learning for Accelerated MRI Using Magnitude and Phase Networks. *Lee, D.*, +, *TBME Sept. 2018 1985-1995*
- Dual Temporal and Spatial Sparse Representation for Inferring Group-Wise Brain Networks From Resting-State fMRI Dataset. *Gong, J.*, +, *TBME May 2018 1035-1048*
- Euler Elastica Regularized Logistic Regression for Whole-Brain Decoding of fMRI Data. *Zhang, C.*, +, *TBME July 2018 1639-1653*
- Learning Based Segmentation of CT Brain Images: Application to Postoperative Hydrocephalic Scans. *Cherukuri, V.*, +, *TBME Aug. 2018 1871-1884*
- Low Rank Enhanced Matrix Recovery of Hybrid Time and Frequency Data in Fast Magnetic Resonance Spectroscopy. *Lu, H.*, +, *TBME April 2018 809-820*
- MRI-Guided Robotically Assisted Focal Laser Ablation of the Prostate Using Canine Cadavers. *Chen, Y.*, +, *TBME July 2018 1434-1442*
- Multi-Imager Compatible, MR Safe, Remote Center of Motion Needle-Guide Robot. *Stoianovici, D.*, +, *TBME Jan. 2018 165-177*
- Multi-Views Fusion CNN for Left Ventricular Volumes Estimation on Cardiac MR Images. *Luo, G.*, +, *TBME Sept. 2018 1924-1934*
- Parametric Dependencies of Sliding Window Correlation. *Shakil, S.*, +, *TBME Feb. 2018 254-263*
- Quantitative Testing of fMRI-Compatibility of an Electrically Active Mechatronic Device for Robot-Assisted Sensorimotor Protocols. *Farrens, A.J.*, +, *TBME July 2018 1595-1606*
- Robust Multicontrast MRI Spleen Segmentation for Splenomegaly Using Multi-Atlas Segmentation. *Huo, Y.*, +, *TBME Feb. 2018 336-343*
- Semiblind Spectral Factorization Approach for Magnetic Resonance Spectroscopy Quantification. *Ferdowsi, S.*, +, *TBME Aug. 2018 1717-1724*
- Shared and Subject-Specific Dictionary Learning (ShSSDL) Algorithm for Multisubject fMRI Data Analysis. *Iqbal, A.*, +, *TBME Nov. 2018 2519-2528*
- Spatially Resolved MR-Compatible Doppler Ultrasound: Proof of Concept for Triggering of Diagnostic Quality Cardiovascular MRI for Function and Flow Quantification at 3T. *Crowe, L.A.*, +, *TBME Feb. 2018 294-306*
- Spiral Gradient Coil Design for Use in Cylindrical MRI Systems. *Wang, Y.*, +, *TBME April 2018 911-920*
- Temporal Dynamics Assessment of Spatial Overlap Pattern of Functional Brain Networks Reveals Novel Functional Architecture of Cerebral Cortex. *Jiang, X.*, +, *TBME June 2018 1183-1192*
- The ICVSIE: A General Purpose Integral Equation Method for Bio-Electromagnetic Analysis. *Gomez, L.J.*, +, *TBME March 2018 565-574*
- Topological Properties of the Structural Brain Network in Autism via -Neighbor Method. *Lee, M.*, +, *TBME Oct. 2018 2323-2333*
- Tractography-Based Score for Learning Effective Connectivity From Multimodal Imaging Data Using Dynamic Bayesian Networks. *Dang, S.*, +, *TBME May 2018 1057-1068*
- Biomedical NMR**
- Semiblind Spectral Factorization Approach for Magnetic Resonance Spectroscopy Quantification. *Ferdowsi, S.*, +, *TBME Aug. 2018 1717-1724*
- Single-Scan High-Resolution 2-D J-Resolved Spectroscopy in Inhomogeneous Magnetic Fields. *Wang, K.*, +, *TBME Feb. 2018 440-448*
- Biomedical optical imaging**
- In Vivo Superresolution Imaging of Neuronal Structure in the Mouse Brain. *Urban, B.E.*, +, *TBME Jan. 2018 232-238*
- A High-Resolution Minimicroscope System for Wireless Real-Time Monitoring. *Wang, Z.*, +, *TBME July 2018 1524-1531*
- A Novel Telemanipulated Robotic Assistant for Surgical Endoscopy: Pre-clinical Application to ESD. *Zorn, L.*, +, *TBME April 2018 797-808*
- An Automated System for the Detection and Classification of Retinal Changes Due to Red Lesions in Longitudinal Fundus Images. *Adal, K.M.*, +, *TBME June 2018 1382-1390*
- An In Vitro and Numerical Study of Moxibustion Therapy on Biological Tissue. *Li, Y.*, +, *TBME April 2018 779-788*
- Analysis of Energy-Based Metrics for Laparoscopic Skills Assessment. *Poursartip, B.*, +, *TBME July 2018 1532-1542*
- Automatic Subretinal Fluid Segmentation of Retinal SD-OCT Images With Neurosensory Retinal Detachment Guided by Enface Fundus Imaging. *Wu, M.*, +, *TBME Jan. 2018 87-95*
- Coded-Aperture Compressed Sensing X-Ray Luminescence Tomography. *Tzoumas, S.*, +, *TBME Aug. 2018 1892-1895*
- Color Retinal Image Enhancement Based on Luminosity and Contrast Adjustment. *Zhou, M.*, +, *TBME March 2018 521-527*
- Curved-Array-Based Multispectral Photoacoustic Imaging of Human Finger Joints. *Huang, N.*, +, *TBME July 2018 1452-1459*
- Double-Stage Delay Multiply and Sum Beamforming Algorithm: Application to Linear-Array Photoacoustic Imaging. *Mozaffarzadeh, M.*, +, *TBME Jan. 2018 31-42*
- Fabrication and Performance of a Miniaturized and Integrated Endoscope Ultrasound Convex Array for Digestive Tract Imaging. *Peng, J.*, +, *TBME Jan. 2018 140-148*
- Fully Automated Segmentation of Fluid/Cyst Regions in Optical Coherence Tomography Images With Diabetic Macular Edema Using Neutrosophic Sets and Graph Algorithms. *Rashno, A.*, +, *TBME May 2018 989-1001*
- Hypoperfusion Induced by Preconditioning Treadmill Training in Hyper-Early Reperfusion After Cerebral Ischemia: A Laser Speckle Imaging Study. *He, Z.*, +, *TBME Jan. 2018 219-223*
- Joint Segment-Level and Pixel-Wise Losses for Deep Learning Based Retinal Vessel Segmentation. *Yan, Z.*, +, *TBME Sept. 2018 1912-1923*
- Micromagnetic Stimulation of the Mouse Auditory Cortex In Vivo Using an Implantable Solenoid System. *Minusa, S.*, +, *TBME June 2018 1301-1310*
- Monitoring Acute Stroke in Mouse Model Using Laser Speckle Imaging-Guided Visible-Light Optical Coherence Tomography. *Liu, Q.*, +, *TBME Oct. 2018 2136-2142*
- Real-Time Automatic Apneic Event Detection Using Nocturnal Pulse Oximetry. *Jung, D.W.*, +, *TBME March 2018 706-712*
- Reconnection of Interrupted Curvilinear Structures via Cortically Inspired Completion for Ophthalmologic Images. *Zhang, J.*, +, *TBME May 2018 1151-1165*
- Sparse Ultrasound Image Reconstruction From a Shape-Sensing Single-Element Forward-Looking Catheter. *Janjic, J.*, +, *TBME Oct. 2018 2210-2218*
- Spatial Position Measurement System for Surgical Navigation Using 3-D Image Marker-Based Tracking Tools With Compact Volume. *Fan, Z.*, +, *TBME Feb. 2018 378-389*
- Super-Resolution Axial Localization of Ultrasound Scatter Using Multi-Focal Imaging. *Diamantis, K.*, +, *TBME Aug. 2018 1840-1851*
- Three-Dimensional Segmentation of the Ex-Vivo Anterior Lamina Cribrosa From Second-Harmonic Imaging Microscopy. *Ram, S.*, +, *TBME July 2018 1617-1629*
- Ultra-Wideband Millimeter-Wave Dielectric Characteristics of Freshly Excised Normal and Malignant Human Skin Tissues. *Mirbeik-Sabzevari, A.*, +, *TBME June 2018 1320-1329*
- Uncertainty-Aware Organ Classification for Surgical Data Science Applications in Laparoscopy. *Moccia, S.*, +, *TBME Nov. 2018 2649-2659*
- WaveDec: A Wavelet Approach to Identify Both Shared and Individual Patterns of Copy-Number Variations. *Cai, H.*, +, *TBME Feb. 2018 353-364*
- Biomedical telemetry**
- Depth-Based Whole Body Photoplethysmography in Remote Pulmonary Function Testing. *Soleimani, V.*, +, *TBME June 2018 1421-1431*
- Multiaxial In Vivo Biotelemetry Using Sonomicrometry and M-Scan Ultrasound Imaging. *Kondapalli, S.H.*, +, *TBME Jan. 2018 149-158*
- Near-Field Inductive-Coupling Link to Power a Three-Dimensional Millimeter-Size Antenna for Brain Implantable Medical Devices. *Manoufali, M.*, +, *TBME Jan. 2018 4-14*
- Biomedical transducers**
- A Delayed-Excitation Data Acquisition Method for High-Frequency Ultrasound Imaging. *Qiu, W.*, +, *TBME Jan. 2018 15-20*
- Curved-Array-Based Multispectral Photoacoustic Imaging of Human Finger Joints. *Huang, N.*, +, *TBME July 2018 1452-1459*
- Full Modeling of High-Intensity Focused Ultrasound and Thermal Heating in the Kidney Using Realistic Patient Models. *Suomi, V.*, +, *TBME May 2018 969-979*
- Biomedical ultrasonics**
- A Centerline-Based Model Morphing Algorithm for Patient-Specific Finite Element Modeling of the Left Ventricle. *Behdadfar, S.*, +, *TBME June 2018 1391-1398*
- A Delayed-Excitation Data Acquisition Method for High-Frequency Ultrasound Imaging. *Qiu, W.*, +, *TBME Jan. 2018 15-20*
- A Methodology for Non-Invasive 3-D Surveillance of Arteriovenous Fistulae Using Freehand Ultrasound. *Colley, E.*, +, *TBME Aug. 2018 1885-1891*
- A Radiomics Approach With CNN for Shear-Wave Elastography Breast Tumor Classification. *Zhou, Y.*, +, *TBME Sept. 2018 1935-1942*

- Automated *In Vivo* Sub-Hertz Analysis of Viscoelasticity (SAVE) for Evaluation of Breast Lesions. *Bayat, M., +, TBME Oct. 2018 2237-2247*
- Bi-Modal Arterial Compliance Probe for Calibration-Free Cuffless Blood Pressure Estimation. *P M, N., +, TBME Nov. 2018 2392-2404*
- Broadband Vibration Detection in Tissue Phantoms Using a Fiber Fabry–Perot Cavity. *Barnes, J., +, TBME April 2018 921-927*
- Critical Closing Pressure During Controlled Increase in Intracranial Pressure—Comparison of Three Methods. *Kaczmarek, K., +, TBME March 2018 619-624*
- Curved-Array-Based Multispectral Photoacoustic Imaging of Human Finger Joints. *Huang, N., +, TBME July 2018 1452-1459*
- Double-Stage Delay Multiply and Sum Beamforming Algorithm: Application to Linear-Array Photoacoustic Imaging. *Mozaffarzadeh, M., +, TBME Jan. 2018 31-42*
- Epidermal Electrode Technology for Detecting Ultrasonic Perturbation of Sensory Brain Activity. *Huang, S., +, TBME June 2018 1272-1280*
- Fabrication and Performance of a Miniaturized and Integrated Endoscope Ultrasound Convex Array for Digestive Tract Imaging. *Peng, J., +, TBME Jan. 2018 140-148*
- Full Modeling of High-Intensity Focused Ultrasound and Thermal Heating in the Kidney Using Realistic Patient Models. *Suomi, V., +, TBME May 2018 969-979*
- Identification of Ultrasonic Echolucent Carotid Plaques Using Discrete Fréchet Distance Between Bimodal Gamma Distributions. *Huang, X., +, TBME May 2018 949-955*
- Magneto-acousto-electrical Measurement Based Electrical Conductivity Reconstruction for Tissues. *Zhou, Y., +, TBME May 2018 1086-1094*
- Multiaccess *In Vivo* Biotelemetry Using Sonomicrometry and M-Scan Ultrasound Imaging. *Kondapalli, S.H., +, TBME Jan. 2018 149-158*
- Noninvasive Assessment of Jugular Venous Pressure via Force-Coupled Single Crystal Ultrasound. *Singh, R., +, TBME Aug. 2018 1705-1710*
- Passive Wearable Skin Patch Sensor Measures Limb Hemodynamics Based on Electromagnetic Resonance. *Cluff, K., +, TBME April 2018 847-856*
- Real-Time Blood Pressure Estimation From Force-Measured Ultrasound. *Zakrzewski, A.M., +, TBME Nov. 2018 2405-2416*
- Screening for Cognitive Impairment by Model-Assisted Cerebral Blood Flow Estimation. *Lassila, T., +, TBME July 2018 1654-1661*
- Sparse Ultrasound Image Reconstruction From a Shape-Sensing Single-Element Forward-Looking Catheter. *Janjic, J., +, TBME Oct. 2018 2210-2218*
- Spatially Resolved MR-Compatible Doppler Ultrasound: Proof of Concept for Triggering of Diagnostic Quality Cardiovascular MRI for Function and Flow Quantification at 3T. *Crowe, L.A., +, TBME Feb. 2018 294-306*
- Stochastic Modeling of Temporal Enhanced Ultrasound: Impact of Temporal Properties on Prostate Cancer Characterization. *Nahlawi, L., +, TBME Aug. 2018 1798-1809*
- Super-Resolution Axial Localization of Ultrasound Scatter Using Multifocal Imaging. *Diamantis, K., +, TBME Aug. 2018 1840-1851*
- Unambiguous Identification and Visualization of an Acoustically Active Catheter by Ultrasound Imaging in Real Time: Theory, Algorithm, and Phantom Experiments. *Kumar, V., +, TBME July 2018 1468-1475*
- Biomembrane transport**
- Enhancement of Intercellular Electrical Synchronization by Conductive Materials in Cardiac Tissue Engineering. *Wu, Y., +, TBME Feb. 2018 264-272*
- Identification of Ion Currents Components Generating Field Potential Recorded in MEA From hiPSC-CM. *Raphel, F., +, TBME June 2018 1311-1319*
- Biomembranes**
- A Flexure-Guided Piezo Drill for Penetrating the Zona Pellucida of Mammalian Oocytes. *Johnson, W., +, TBME March 2018 678-686*
- Effect of Tissue Heterogeneity on the Transmembrane Potential of Type-1 Spiral Ganglion Neurons: A Simulation Study. *Sriperumbudur, K.K., +, TBME March 2018 658-668*
- Electrothermal Equivalent Three-Dimensional Finite-Element Model of a Single Neuron. *Cinelli, I., +, TBME June 2018 1373-1381*
- From Cell to Tissue Properties—Modeling Skin Electroporation With Pore and Local Transport Region Formation. *Dermol-Cerne, J., +, TBME Feb. 2018 458-468*
- Modeling of Electroporation Induced by Pulsed Electric Fields in Irregularly Shaped Cells. *Mescia, L., +, TBME Feb. 2018 414-423*
- BioMEMS**
- A High-Resolution Minimicroscope System for Wireless Real-Time Monitoring. *Wang, Z., +, TBME July 2018 1524-1531*
- A Three-Dimensional Arrayed Microfluidic Blood–Brain Barrier Model With Integrated Electrical Sensor Array. *Jeong, S., +, TBME Feb. 2018 431-439*
- Electromechanical Coupling Factor of Breast Tissue as a Biomarker for Breast Cancer. *Park, K., +, TBME Jan. 2018 96-103*
- Mechanical Imaging of Soft Tissues With a Highly Compliant Tactile Sensing Array. *Li, B., +, TBME March 2018 687-697*
- Visual Servoed Three-Dimensional Rotation Control in Zebrafish Larva Heart Microinjection System. *Zhuang, S., +, TBME Jan. 2018 64-73*
- Biomimetics**
- A Three-Dimensional Arrayed Microfluidic Blood–Brain Barrier Model With Integrated Electrical Sensor Array. *Jeong, S., +, TBME Feb. 2018 431-439*
- Translational Motion Tracking of Leg Joints for Enhanced Prediction of Walking Tasks. *Stolyarov, R., +, TBME April 2018 763-769*
- Bioreactors**
- Ex Vivo* Modeling of Perioperative Air Leaks in Porcine Lungs. *Klassen, C., +, TBME Dec. 2018 2827-2836*
- Biosensors**
- A Smart Capsule With a Hydrogel-Based pH-Triggered Release Switch for GI-Tract Site-Specific Drug Delivery. *Jiang, H., +, TBME Dec. 2018 2808-2813*
- Inertial Sensing for Gait Event Detection and Transfemoral Prosthesis Control Strategy. *Ledoux, E.D., TBME Dec. 2018 2704-2712*
- Molecularly Imprinted Polymer-Based Electrochemical Biosensor for Bone Loss Detection. *Afsarimanesh, N., +, TBME June 2018 1264-1271*
- Biothermics**
- An *In Vitro* and Numerical Study of Moxibustion Therapy on Biological Tissue. *Li, Y., +, TBME April 2018 779-788*
- Characterization and Modeling of Tissue Thermal Conductivity During an Electrosurgical Joining Process. *Yang, C., +, TBME Feb. 2018 365-370*
- Dielectric Properties of *Ex Vivo* Porcine Liver Tissue Characterized at Frequencies Between 5 and 500 kHz When Heated at Different Rates. *Deas Yero, D., +, TBME Nov. 2018 2560-2568*
- Full Modeling of High-Intensity Focused Ultrasound and Thermal Heating in the Kidney Using Realistic Patient Models. *Suomi, V., +, TBME May 2018 969-979*
- Full Modeling of High-Intensity Focused Ultrasound and Thermal Heating in the Kidney Using Realistic Patient Models. *Suomi, V., +, TBME Nov. 2018 2660-2670*
- Real-Time Three-Dimensional Microwave Monitoring of Interstitial Thermal Therapy. *Chen, G., +, TBME March 2018 528-538*
- Time-Dependent Behavior of Microvascular Blood Flow and Oxygenation: A Predictor of Functional Outcomes. *Kuliga, K.Z., +, TBME May 2018 1049-1056*
- Biotransport**
- From Cell to Tissue Properties—Modeling Skin Electroporation With Pore and Local Transport Region Formation. *Dermol-Cerne, J., +, TBME Feb. 2018 458-468*
- Blind source separation**
- Robust Methods for Automated Selection of Cardiac Signals After Blind Source Separation. *Wedekind, D., +, TBME Oct. 2018 2248-2258*
- Blood**
- A Three-Dimensional Arrayed Microfluidic Blood–Brain Barrier Model With Integrated Electrical Sensor Array. *Jeong, S., +, TBME Feb. 2018 431-439*
- Ballistocardiogram-Based Approach to Cuffless Blood Pressure Monitoring: Proof of Concept and Potential Challenges. *Kim, C., +, TBME Nov. 2018 2384-2391*
- Bi-Modal Arterial Compliance Probe for Calibration-Free Cuffless Blood Pressure Estimation. *P M, N., +, TBME Nov. 2018 2392-2404*
- Extremum Seeking Control for Personalized Zone Adaptation in Model Predictive Control for Type 1 Diabetes. *Cao, Z., +, TBME Aug. 2018 1859-1870*
- Generalisability of a Virtual Trials Method for Glycaemic Control in Intensive Care. *Dickson, J.L., +, TBME July 2018 1543-1553*
- Instantaneous Transfer Entropy for the Study of Cardiovascular and Cardiorespiratory Nonstationary Dynamics. *Valenza, G., +, TBME May 2018 1077-1085*
- Modeling of Electroporation Induced by Pulsed Electric Fields in Irregularly Shaped Cells. *Mescia, L., +, TBME Feb. 2018 414-423*
- Molecularly Imprinted Polymer-Based Electrochemical Biosensor for Bone Loss Detection. *Afsarimanesh, N., +, TBME June 2018 1264-1271*
- N-Point Moving Average: A Special Generalized Transfer Function Method for Estimation of Central Aortic Blood Pressure. *Xiao, H., +, TBME June 2018 1226-1234*
- Noninvasive *In-Situ* Measurement of Blood Lactate Using Microwave Sensors. *Mason, A., +, TBME March 2018 698-705*

- Noninvasive Blood Pressure Estimation Using Ultrasound and Simple Finite Element Models. *Zakrzewski, A.M., +, TBME Sept. 2018 2011-2022*
- Real-Time Automatic Apneic Event Detection Using Nocturnal Pulse Oximetry. *Jung, D.W., +, TBME March 2018 706-712*
- Real-Time Blood Pressure Estimation From Force-Measured Ultrasound. *Zakrzewski, A.M., +, TBME Nov. 2018 2405-2416*
- Reduction of Blood Glucose Measurements to Calibrate Subcutaneous Glucose Sensors: A Bayesian Multiday Framework. *Acciaroli, G., +, TBME March 2018 587-595*
- Screening for Cognitive Impairment by Model-Assisted Cerebral Blood Flow Estimation. *Lassila, T., +, TBME July 2018 1654-1661*
- Time-Dependent Behavior of Microvascular Blood Flow and Oxygenation: A Predictor of Functional Outcomes. *Kuliga, K.Z., +, TBME May 2018 1049-1056*
- Type-1 Diabetes Patient Decision Simulator for In Silico Testing Safety and Effectiveness of Insulin Treatments. *Vettoretti, M., +, TBME June 2018 1281-1290*
- Unambiguous Identification and Visualization of an Acoustically Active Catheter by Ultrasound Imaging in Real Time: Theory, Algorithm, and Phantom Experiments. *Kumar, V., +, TBME July 2018 1468-1475*
- Viscosity Prediction in a Physiologically Controlled Ventricular Assist Device. *Petrou, A., +, TBME Oct. 2018 2355-2364*
- Blood flow measurement**
- A Model for Estimating the Blood Flow of the POLVAD Pulsatile Ventricular Assist Device. *Siewnicka, A., +, TBME Nov. 2018 2552-2559*
- Automatic Early-Onset Free Flap Failure Detection for Implantable Biomedical Devices. *Rothfuss, M.A., +, TBME Oct. 2018 2290-2297*
- Critical Closing Pressure During Controlled Increase in Intracranial Pressure—Comparison of Three Methods. *Kaczmarska, K., +, TBME March 2018 619-624*
- Monitoring Acute Stroke in Mouse Model Using Laser Speckle Imaging-Guided Visible-Light Optical Coherence Tomography. *Liu, Q., +, TBME Oct. 2018 2136-2142*
- N-Point Moving Average: A Special Generalized Transfer Function Method for Estimation of Central Aortic Blood Pressure. *Xiao, H., +, TBME June 2018 1226-1234*
- Passive Wearable Skin Patch Sensor Measures Limb Hemodynamics Based on Electromagnetic Resonance. *Cluff, K., +, TBME April 2018 847-856*
- Time-Dependent Behavior of Microvascular Blood Flow and Oxygenation: A Predictor of Functional Outcomes. *Kuliga, K.Z., +, TBME May 2018 1049-1056*
- Viscosity Prediction in a Physiologically Controlled Ventricular Assist Device. *Petrou, A., +, TBME Oct. 2018 2355-2364*
- Blood pressure measurement**
- A Fiber Bragg Grating Sensor for Radial Artery Pulse Waveform Measurement. *Jia, D., +, TBME April 2018 839-846*
- Aortic Pressure Estimation Using Blind Identification Approach on Single Input Multiple Output Nonlinear Wiener Systems. *Patel, A.M., +, TBME June 2018 1193-1200*
- Ballistocardiogram-Based Approach to Cuffless Blood Pressure Monitoring: Proof of Concept and Potential Challenges. *Kim, C., +, TBME Nov. 2018 2384-2391*
- Bi-Modal Arterial Compliance Probe for Calibration-Free Cuffless Blood Pressure Estimation. *P M, N., +, TBME Nov. 2018 2392-2404*
- Critical Closing Pressure During Controlled Increase in Intracranial Pressure—Comparison of Three Methods. *Kaczmarska, K., +, TBME March 2018 619-624*
- Cuffless Estimation of Blood Pressure: Importance of Variability in Blood Pressure Dependence of Arterial Stiffness Across Individuals and Measurement Sites. *Butlin, M., +, TBME Nov. 2018 2377-2383*
- N-Point Moving Average: A Special Generalized Transfer Function Method for Estimation of Central Aortic Blood Pressure. *Xiao, H., +, TBME June 2018 1226-1234*
- Noninvasive Blood Pressure Estimation Using Ultrasound and Simple Finite Element Models. *Zakrzewski, A.M., +, TBME Sept. 2018 2011-2022*
- Real-Time Blood Pressure Estimation From Force-Measured Ultrasound. *Zakrzewski, A.M., +, TBME Nov. 2018 2405-2416*
- Screening for Cognitive Impairment by Model-Assisted Cerebral Blood Flow Estimation. *Lassila, T., +, TBME July 2018 1654-1661*
- Toward Ubiquitous Blood Pressure Monitoring via Pulse Transit Time: Predictions on Maximum Calibration Period and Acceptable Error Limits. *Mukkamala, R., +, TBME June 2018 1410-1420*
- Viscosity Prediction in a Physiologically Controlled Ventricular Assist Device. *Petrou, A., +, TBME Oct. 2018 2355-2364*
- Blood vessels**
- A Fiber Bragg Grating Sensor for Radial Artery Pulse Waveform Measurement. *Jia, D., +, TBME April 2018 839-846*
- A Lumped Parameter Model to Study Atrioventricular Valve Regurgitation in Stage 1 and Changes Across Stage 2 Surgery in Single Ventricle Patients. *Pant, S., +, TBME Nov. 2018 2450-2458*
- A Model for Estimating the Blood Flow of the POLVAD Pulsatile Ventricular Assist Device. *Siewnicka, A., +, TBME Nov. 2018 2552-2559*
- Aortic Pressure Estimation Using Blind Identification Approach on Single Input Multiple Output Nonlinear Wiener Systems. *Patel, A.M., +, TBME June 2018 1193-1200*
- Automatic Detection of Retinal Lesions for Screening of Diabetic Retinopathy. *Kar, S.S., +, TBME March 2018 608-618*
- Automatic Early-Onset Free Flap Failure Detection for Implantable Biomedical Devices. *Rothfuss, M.A., +, TBME Oct. 2018 2290-2297*
- Automatic Temporal Segmentation of Vessels of the Brain Using 4D ASL-MRA Images. *Phellan, R., +, TBME July 2018 1486-1494*
- Bi-Modal Arterial Compliance Probe for Calibration-Free Cuffless Blood Pressure Estimation. *P M, N., +, TBME Nov. 2018 2392-2404*
- Characterization and Modeling of Tissue Thermal Conductivity During an Electrosurgical Joining Process. *Yang, C., +, TBME Feb. 2018 365-370*
- Closed-Loop Lumped Parameter Modeling of Hemodynamics During Cirrhogenesis in Rats. *Audebert, C., +, TBME Oct. 2018 2311-2322*
- Critical Closing Pressure During Controlled Increase in Intracranial Pressure—Comparison of Three Methods. *Kaczmarska, K., +, TBME March 2018 619-624*
- Cuffless Estimation of Blood Pressure: Importance of Variability in Blood Pressure Dependence of Arterial Stiffness Across Individuals and Measurement Sites. *Butlin, M., +, TBME Nov. 2018 2377-2383*
- Curved-Array-Based Multispectral Photoacoustic Imaging of Human Finger Joints. *Huang, N., +, TBME July 2018 1452-1459*
- Design and Development of Surgeon Augmented Endovascular Robotic System. *Sankaran, N.K., +, TBME Nov. 2018 2483-2493*
- Hypoperfusion Induced by Preconditioning Treadmill Training in Hyper-Early Reperfusion After Cerebral Ischemia: A Laser Speckle Imaging Study. *He, Z., +, TBME Jan. 2018 219-223*
- Joint Segment-Level and Pixel-Wise Losses for Deep Learning Based Retinal Vessel Segmentation. *Yan, Z., +, TBME Sept. 2018 1912-1923*
- Monitoring Acute Stroke in Mouse Model Using Laser Speckle Imaging-Guided Visible-Light Optical Coherence Tomography. *Liu, Q., +, TBME Oct. 2018 2136-2142*
- N-Point Moving Average: A Special Generalized Transfer Function Method for Estimation of Central Aortic Blood Pressure. *Xiao, H., +, TBME June 2018 1226-1234*
- Noninvasive Assessment of Jugular Venous Pressure via Force-Coupled Single Crystal Ultrasound. *Singh, R., +, TBME Aug. 2018 1705-1710*
- Passive Wearable Skin Patch Sensor Measures Limb Hemodynamics Based on Electromagnetic Resonance. *Cluff, K., +, TBME April 2018 847-856*
- Real-Time Blood Pressure Estimation From Force-Measured Ultrasound. *Zakrzewski, A.M., +, TBME Nov. 2018 2405-2416*
- Robust Nonlinear Causality Analysis of Nonstationary Multivariate Physiological Time Series. *Schack, T., +, TBME June 2018 1213-1225*
- Screening for Cognitive Impairment by Model-Assisted Cerebral Blood Flow Estimation. *Lassila, T., +, TBME July 2018 1654-1661*
- Sparse Ultrasound Image Reconstruction From a Shape-Sensing Single-Element Forward-Looking Catheter. *Janjic, J., +, TBME Oct. 2018 2210-2218*
- Spatially Resolved MR-Compatible Doppler Ultrasound: Proof of Concept for Triggering of Diagnostic Quality Cardiovascular MRI for Function and Flow Quantification at 3T. *Crowe, L.A., +, TBME Feb. 2018 294-306*
- Three-Dimensional Segmentation of the *Ex-Vivo* Anterior Lamina Cribrosa From Second-Harmonic Imaging Microscopy. *Ram, S., +, TBME July 2018 1617-1629*
- Time-Dependent Behavior of Microvascular Blood Flow and Oxygenation: A Predictor of Functional Outcomes. *Kuliga, K.Z., +, TBME May 2018 1049-1056*
- Toward Ubiquitous Blood Pressure Monitoring via Pulse Transit Time: Predictions on Maximum Calibration Period and Acceptable Error Limits. *Mukkamala, R., +, TBME June 2018 1410-1420*
- Using Microbubble as Contrast Agent for High-Energy X-Ray In-line Phase Contrast Imaging: Demonstration and Comparison Study. *Wu, D., +, TBME May 2018 1117-1123*
- Bluetooth**
- Interoperable End-to-End Remote Patient Monitoring Platform Based on IEEE 11073 PHD and ZigBee Health Care Profile. *Clarke, M., +, TBME May 2018 1014-1025*

Body sensor networks

- Epidermal Electrode Technology for Detecting Ultrasonic Perturbation of Sensory Brain Activity. *Huang, S.*, +, *TBME June 2018 1272-1280*
- In-Ear Audio Wearable: Measurement of Heart and Breathing Rates for Health and Safety Monitoring. *Martin, A.*, +, *TBME June 2018 1256-1263*
- Matched Filtering for Heart Rate Estimation on Compressive Sensing ECG Measurements. *Da Poian, G.*, +, *TBME June 2018 1349-1358*
- Muscle Activation and Inertial Motion Data for Noninvasive Classification of Activities of Daily Living. *Totty, M.S.*, +, *TBME May 2018 1069-1076*
- Noninvasive *In-Situ* Measurement of Blood Lactate Using Microwave Sensors. *Mason, A.*, +, *TBME March 2018 698-705*
- Passive Wearable Skin Patch Sensor Measures Limb Hemodynamics Based on Electromagnetic Resonance. *Cluff, K.*, +, *TBME April 2018 847-856*
- Two-Wire Bus Combining Full Duplex Body-Sensor Network and Multilead Biopotential Measurements. *Rapin, M.*, +, *TBME Jan. 2018 113-122*

Bone

- Influence of Shoulder Kinematic Estimate on Joint and Muscle Mechanics Predicted by Musculoskeletal Model. *Blache, Y.*, +, *TBME April 2018 715-722*
- Minimizing the Translation Error in the Application of an Oblique Single-Cut Rotation Osteotomy: Where to Cut?. *Dobbe, J.G.G.*, +, *TBME April 2018 821-827*
- Molecularly Imprinted Polymer-Based Electrochemical Biosensor for Bone Loss Detection. *Afsarimanesh, N.*, +, *TBME June 2018 1264-1271*
- Orbit Segmentation by Surface Reconstruction With Automatic Sliced Vertex Screening. *Hsung, T.*, +, *TBME April 2018 828-838*
- Procedure-Specific Validation of Artificial Vertebrae. *Hollensteiner, M.*, +, *TBME Aug. 2018 1852-1858*
- Robust Real-Time Musculoskeletal Modeling Driven by Electromyograms. *Durandau, G.*, +, *TBME March 2018 556-564*
- Simulation of Constrained Musculoskeletal Systems in Task Space. *Stanev, D.*, +, *TBME Feb. 2018 307-318*
- Single-Scan High-Resolution 2-D J-Resolved Spectroscopy in Inhomogeneous Magnetic Fields. *Wang, K.*, +, *TBME Feb. 2018 440-448*
- Skull Modeling Effects in Conductivity Estimates Using Parametric Electrical Impedance Tomography. *Fernandez-Corazza, M.*, +, *TBME Aug. 2018 1785-1797*

Boundary conditions

- A Quasi-Static Boundary Element Approach With Fast Multipole Acceleration for High-Resolution Bioelectromagnetic Models. *Makarov, S.N.*, +, *TBME Dec. 2018 2675-2683*

Boundary-elements methods

- Skull Modeling Effects in Conductivity Estimates Using Parametric Electrical Impedance Tomography. *Fernandez-Corazza, M.*, +, *TBME Aug. 2018 1785-1797*

Bragg gratings

- A Fiber Bragg Grating Sensor for Radial Artery Pulse Waveform Measurement. *Jia, D.*, +, *TBME April 2018 839-846*
- Broadband Vibration Detection in Tissue Phantoms Using a Fiber Fabry-Perot Cavity. *Barnes, J.*, +, *TBME April 2018 921-927*

Brain models

- A Comparison of Intention Estimation Methods for Decoder Calibration in Intracortical Brain-Computer Interfaces. *Willett, F.R.*, +, *TBME Sept. 2018 2066-2078*
- A Machine Learning Approach to Automated Gait Analysis for the Noldus Catwalk System. *Frohlich, H.*, +, *TBME May 2018 1133-1139*
- A Quasi-Static Boundary Element Approach With Fast Multipole Acceleration for High-Resolution Bioelectromagnetic Models. *Makarov, S.N.*, +, *TBME Dec. 2018 2675-2683*
- A Three-Dimensional Arrayed Microfluidic Blood-Brain Barrier Model With Integrated Electrical Sensor Array. *Jeong, S.*, +, *TBME Feb. 2018 431-439*
- Adaptive Estimation of the Neural Activation Extent in Computational Volume Conductor Models of Deep Brain Stimulation. *Schmidt, C.*, +, *TBME Aug. 2018 1828-1839*
- Adaptive Sparse Multiple Canonical Correlation Analysis With Application to Imaging (Epi)Genomics Study of Schizophrenia. *Hu, W.*, +, *TBME Feb. 2018 390-399*
- An Efficient Integral-Based Method for Three-Dimensional MR-EPT and the Calculation of the RF-Coil-Induced B_z Field. *Guo, L.*, +, *TBME Feb. 2018 282-293*
- An MRI-Compatible Hydrodynamic Simulator of Cerebrospinal Fluid Motion in the Cervical Spine. *Thyagaraj, S.*, +, *TBME July 2018 1516-1523*
- Automatic Temporal Segmentation of Vessels of the Brain Using 4D ASL MRA Images. *Phellan, R.*, +, *TBME July 2018 1486-1494*

- Brain MR Image Restoration Using an Automatic Trilateral Filter With GPU-Based Acceleration. *Chang, H.*, +, *TBME Feb. 2018 400-413*
- Computationally Efficient Algorithms for Sparse, Dynamic Solutions to the EEG Source Localization Problem. *Pirondini, E.*, +, *TBME June 2018 1359-1372*
- Critical Closing Pressure During Controlled Increase in Intracranial Pressure—Comparison of Three Methods. *Kaczmarek, K.*, +, *TBME March 2018 619-624*
- Developing a Nonstationary Computational Framework With Application to Modeling Dynamic Modulations in Neural Spiking Responses. *Akbarian, A.*, +, *TBME Feb. 2018 241-253*
- Dual Temporal and Spatial Sparse Representation for Inferring Group-Wise Brain Networks From Resting-State fMRI Dataset. *Gong, J.*, +, *TBME May 2018 1035-1048*
- Epidermal Electrode Technology for Detecting Ultrasonic Perturbation of Sensory Brain Activity. *Huang, S.*, +, *TBME June 2018 1272-1280*
- Euler Elastica Regularized Logistic Regression for Whole-Brain Decoding of fMRI Data. *Zhang, C.*, +, *TBME July 2018 1639-1653*
- Electroencephalogram Based Detection of Deep Sedation in ICU Patients Using Atomic Decomposition. *Nagaraj, S.B.*, +, *TBME Dec. 2018 2684-2691*
- Estimating Brain Connectivity With Varying-Length Time Lags Using a Recurrent Neural Network. *Wang, Y.*, +, *TBME Sept. 2018 1953-1963*
- Focal Onset Seizure Prediction Using Convolutional Networks. *Khan, H.*, +, *TBME Sept. 2018 2109-2118*
- Feasibility of Automatic Error Detect-and-Undo System in Human Intracortical Brain-Computer Interfaces. *Even-Chen, N.*, +, *TBME Aug. 2018 1771-1784*
- GriFT: A Device for Quantifying Physiological and Pathological Mirror Movements in Children. *Jaspers, E.*, +, *TBME April 2018 857-865*
- Hypoperfusion Induced by Preconditioning Treadmill Training in Hyper-Early Reperfusion After Cerebral Ischemia: A Laser Speckle Imaging Study. *He, Z.*, +, *TBME Jan. 2018 219-223*
- Information-Theoretic Approach and Fundamental Limits of Resolving Two Closely Timed Neuronal Spikes in Mouse Brain Calcium Imaging. *Soltanian-Zadeh, S.*, +, *TBME Nov. 2018 2428-2439*
- Is EMG a Viable Alternative to BCI for Detecting Movement Intention in Severe Stroke?. *Balasubramanian, S.*, +, *TBME Dec. 2018 2790-2797*
- Learning Based Segmentation of CT Brain Images: Application to Post-operative Hydrocephalic Scans. *Cherukuri, V.*, +, *TBME Aug. 2018 1871-1884*
- Micromagnetic Stimulation of the Mouse Auditory Cortex *In Vivo* Using an Implantable Solenoid System. *Minusa, S.*, +, *TBME June 2018 1301-1310*
- Model-Based Analysis of Electrode Placement and Pulse Amplitude for Hippocampal Stimulation. *Bingham, C.S.*, +, *TBME Oct. 2018 2278-2289*
- Monitoring Acute Stroke in Mouse Model Using Laser Speckle Imaging-Guided Visible-Light Optical Coherence Tomography. *Liu, Q.*, +, *TBME Oct. 2018 2136-2142*
- Near-Field Inductive-Coupling Link to Power a Three-Dimensional Millimeter-Size Antenna for Brain Implantable Medical Devices. *Manoufali, M.*, +, *TBME Jan. 2018 4-14*
- Placing Sites on the Edge of Planar Silicon Microelectrodes Enhances Chronic Recording Functionality. *Lee, H.C.*, +, *TBME June 2018 1245-1255*
- Quantitative Testing of fMRI-Compatibility of an Electrically Active Mechatronic Device for Robot-Assisted Sensorimotor Protocols. *Farrens, A.J.*, +, *TBME July 2018 1595-1606*
- Real-Time Three-Dimensional Microwave Monitoring of Interstitial Thermal Therapy. *Chen, G.*, +, *TBME March 2018 528-538*
- Reducing Sensor Noise in MEG and EEG Recordings Using Oversampled Temporal Projection. *Larson, E.*, +, *TBME May 2018 1002-1013*
- Robust Nonlinear Causality Analysis of Nonstationary Multivariate Physiological Time Series. *Schack, T.*, +, *TBME June 2018 1213-1225*
- Screening for Cognitive Impairment by Model-Assisted Cerebral Blood Flow Estimation. *Lassila, T.*, +, *TBME July 2018 1654-1661*
- Semiblind Spectral Factorization Approach for Magnetic Resonance Spectroscopy Quantification. *Ferdowsi, S.*, +, *TBME Aug. 2018 1717-1724*
- Skull Modeling Effects in Conductivity Estimates Using Parametric Electrical Impedance Tomography. *Fernandez-Corazza, M.*, +, *TBME Aug. 2018 1785-1797*
- In Vivo* Superresolution Imaging of Neuronal Structure in the Mouse Brain. *Urban, B.E.*, +, *TBME Jan. 2018 232-238*
- Temporal Dynamics Assessment of Spatial Overlap Pattern of Functional Brain Networks Reveals Novel Functional Architecture of Cerebral Cortex. *Jiang, X.*, +, *TBME June 2018 1183-1192*

Time-Dependent Behavior of Microvascular Blood Flow and Oxygenation: A Predictor of Functional Outcomes. *Kuliga, K.Z.*, +, *TBME May 2018 1049-1056*

Topological Properties of the Structural Brain Network in Autism via -Neighbor Method. *Lee, M.*, +, *TBME Oct. 2018 2323-2333*

Tractography-Based Score for Learning Effective Connectivity From Multimodal Imaging Data Using Dynamic Bayesian Networks. *Dang, S.*, +, *TBME May 2018 1057-1068*

Brain-computer interfaces

A Brain-Computer Interface Based on Miniature-Event-Related Potentials Induced by Very Small Lateral Visual Stimuli. *Xu, M.*, +, *TBME May 2018 1166-1175*

A Comparison of Intention Estimation Methods for Decoder Calibration in Intracortical Brain-Computer Interfaces. *Willett, F.R.*, +, *TBME Sept. 2018 2066-2078*

Consistency of Long-Term Subdural Electrocorticography in Humans. *Nurse, E.S.*, +, *TBME Feb. 2018 344-352*

Decoding Covert Somatosensory Attention by a BCI System Calibrated With Tactile Sensation. *Yao, L.*, +, *TBME Aug. 2018 1689-1695*

EEG-Based Affect and Workload Recognition in a Virtual Driving Environment for ASD Intervention. *Fan, J.*, +, *TBME Jan. 2018 43-51*

Enhancing Detection of SSVEPs for a High-Speed Brain Speller Using Task-Related Component Analysis. *Nakanishi, M.*, +, *TBME Jan. 2018 104-112*

Feasibility of Automatic Error Detect-and-Undo System in Human Intracortical Brain-Computer Interfaces. *Even-Chen, N.*, +, *TBME Aug. 2018 1771-1784*

Four Novel Motion Paradigms Based on Steady-State Motion Visual Evoked Potential. *Yan, W.*, +, *TBME Aug. 2018 1696-1704*

Three-Dimensional Brain-Computer Interface Control Through Simultaneous Overt Spatial Attentional and Motor Imagery Tasks. *Meng, J.*, +, *TBME Nov. 2018 2417-2427*

Transfer Learning: A Riemannian Geometry Framework With Applications to Brain-Computer Interfaces. *Zanini, P.*, +, *TBME May 2018 1107-1116*

Bubbles

Using Microbubble as Contrast Agent for High-Energy X-Ray In-line Phase Contrast Imaging: Demonstration and Comparison Study. *Wu, D.*, +, *TBME May 2018 1117-1123*

C

Calcium

Information-Theoretic Approach and Fundamental Limits of Resolving Two Closely Timed Neuronal Spikes in Mouse Brain Calcium Imaging. *Soltanian-Zadeh, S.*, +, *TBME Nov. 2018 2428-2439*

Calibration

A Comparison of Intention Estimation Methods for Decoder Calibration in Intracortical Brain-Computer Interfaces. *Willett, F.R.*, +, *TBME Sept. 2018 2066-2078*

Bi-Modal Arterial Compliance Probe for Calibration-Free Cuffless Blood Pressure Estimation. *P M, N.*, +, *TBME Nov. 2018 2392-2404*

Decoding Covert Somatosensory Attention by a BCI System Calibrated With Tactile Sensation. *Yao, L.*, +, *TBME Aug. 2018 1689-1695*

Joint Magnetic Calibration and Localization Based on Expectation Maximization for Tongue Tracking. *Lu, J.*, +, *TBME Jan. 2018 52-63*

Super-Resolution Axial Localization of Ultrasound Scatter Using Multi-Focal Imaging. *Diamantis, K.*, +, *TBME Aug. 2018 1840-1851*

Toward Ubiquitous Blood Pressure Monitoring via Pulse Transit Time: Predictions on Maximum Calibration Period and Acceptable Error Limits. *Mukkamala, R.*, +, *TBME June 2018 1410-1420*

Cameras

A High-Resolution Minimicroscope System for Wireless Real-Time Monitoring. *Wang, Z.*, +, *TBME July 2018 1524-1531*

Fabrication and Performance of a Miniaturized and Integrated Endoscope Ultrasound Convex Array for Digestive Tract Imaging. *Peng, J.*, +, *TBME Jan. 2018 140-148*

Fusing Partial Camera Signals for Noncontact Pulse Rate Variability Measurement. *McDuff, D.J.*, +, *TBME Aug. 2018 1725-1739*

Cancer

A 750-MHz Electronically Tunable Resonator Using Microstrip Line Couplers for Electron Paramagnetic Resonance Imaging of a Mouse Tumor-Bearing Leg. *Amida, T.*, +, *TBME May 2018 1124-1132*

A Delayed-Excitation Data Acquisition Method for High-Frequency Ultrasound Imaging. *Qiu, W.*, +, *TBME Jan. 2018 15-20*

A Radiomics Approach With CNN for Shear-Wave Elastography Breast Tumor Classification. *Zhou, Y.*, +, *TBME Sept. 2018 1935-1942*

A Time-Reversal Imaging System for Breast Screening: Theory and Initial Phantom Results. *Yousefina, M.*, +, *TBME Nov. 2018 2542-2551*

Automated *In Vivo* Sub-Hertz Analysis of Viscoelasticity (SAVE) for Evaluation of Breast Lesions. *Bayat, M.*, +, *TBME Oct. 2018 2237-2247*

Effect of Low-Field High-Frequency nsPEFs on the Biological Behaviors of Human A375 Melanoma Cells. *Zhang, B.*, +, *TBME Sept. 2018 2093-2100*

Effects of Ablation (Radio Frequency, Cryo, Microwave) on Physiologic Properties of the Human Vastus Lateralis. *Singal, A.*, +, *TBME Oct. 2018 2202-2209*

Electromechanical Coupling Factor of Breast Tissue as a Biomarker for Breast Cancer. *Park, K.*, +, *TBME Jan. 2018 96-103*

Extracorporeal Stimulation of Sacral Nerve Roots for Observation of Pelvic Autonomic Nerve Integrity: Description of a Novel Methodological Setup. *Moszkowski, T.*, +, *TBME March 2018 550-555*

Full Modeling of High-Intensity Focused Ultrasound and Thermal Heating in the Kidney Using Realistic Patient Models. *Suomi, V.*, +, *TBME May 2018 969-979*

Full Modeling of High-Intensity Focused Ultrasound and Thermal Heating in the Kidney Using Realistic Patient Models. *Suomi, V.*, +, *TBME Nov. 2018 2660-2670*

Mechanical Imaging of Soft Tissues With a Highly Compliant Tactile Sensing Array. *Li, B.*, +, *TBME March 2018 687-697*

Microwave Breast Imaging: Clinical Advances and Remaining Challenges. *O Loughlin, D.*, +, *TBME Nov. 2018 2580-2590*

MRI-Guided Robotically Assisted Focal Laser Ablation of the Prostate Using Canine Cadavers. *Chen, Y.*, +, *TBME July 2018 1434-1442*

Optimization of the Working Conditions for Magnetic Nanoparticle-Enhanced Microwave Diagnostics of Breast Cancer. *Bellizzi, G.*, +, *TBME July 2018 1607-1616*

Semiautomatic Radiofrequency Ablation Planning Based on Constrained Clustering Process for Hepatic Tumors. *Chen, R.*, +, *TBME March 2018 645-657*

Sequential Therapeutic Response Modeling for Tumor Treatment Using Computational Hybrid Control Systems Approach. *Oduola, W.O.*, +, *TBME April 2018 866-874*

Spatial Evidential Clustering With Adaptive Distance Metric for Tumor Segmentation in FDG-PET Images. *Lian, C.*, +, *TBME Jan. 2018 21-30*

Stochastic Modeling of Temporal Enhanced Ultrasound: Impact of Temporal Properties on Prostate Cancer Characterization. *Nahlawi, L.*, +, *TBME Aug. 2018 1798-1809*

Treatment of Cancer *In Vitro* Using Radiation and High-Frequency Bursts of Submicrosecond Electrical Pulses. *Sano, M.B.*, +, *TBME April 2018 928-935*

Ultra-Wideband Millimeter-Wave Dielectric Characteristics of Freshly Excised Normal and Malignant Human Skin Tissues. *Mirbeik-Sabzevari, A.*, +, *TBME June 2018 1320-1329*

WaveDec: A Wavelet Approach to Identify Both Shared and Individual Patterns of Copy-Number Variations. *Cai, H.*, +, *TBME Feb. 2018 353-364*

Capacitive sensors

Mechanical Imaging of Soft Tissues With a Highly Compliant Tactile Sensing Array. *Li, B.*, +, *TBME March 2018 687-697*

Molecularly Imprinted Polymer-Based Electrochemical Biosensor for Bone Loss Detection. *Afsarimanesh, N.*, +, *TBME June 2018 1264-1271*

Capacitors

A Smart Capsule With a Hydrogel-Based pH-Triggered Release Switch for GI-Tract Site-Specific Drug Delivery. *Jiang, H.*, +, *TBME Dec. 2018 2808-2813*

Cardiac disease

Cardiac Motion Evolution Model for Analysis of Functional Changes Using Tensor Decomposition and Cross-Sectional Data. *McLeod, K.*, +, *TBME Dec. 2018 2769-2780*

Cardiology

A Parametric Computational Model of the Action Potential of Pacemaker Cells. *Ai, W.*, +, *TBME Jan. 2018 123-130*

Accelerated Cardiac Diffusion Tensor Imaging Using Joint Low-Rank and Sparsity Constraints. *Ma, S.*, +, *TBME Oct. 2018 2219-2230*

An Optimization-Based Algorithm for the Construction of Cardiac Purkinje Network Models. *Ulysses, J.N.*, +, *TBME Dec. 2018 2760-2768*

Cardio-Pulmonary Stethoscope: Clinical Validation With Heart Failure and Hemodialysis Patients. *Iskander, M.F.*, +, *TBME May 2018 1176-1180*

Cellular Obstruction Clearance in Proximal Ventricular Catheters Using Low-Voltage Joule Heating. *Sane, A.*, +, *TBME Nov. 2018 2503-2511*

- eCurves: A Temporal Shape Encoding. *Bernardis, E.*, +, *TBME April 2018 733-744*
- Endocardial Energy Harvesting by Electromagnetic Induction. *Zurbuchen, A.*, +, *TBME Feb. 2018 424-430*
- Heart Sound Segmentation—An Event Detection Approach Using Deep Recurrent Neural Networks. *Messner, E.*, +, *TBME Sept. 2018 1964-1974*
- Identification of Ion Currents Components Generating Field Potential Recorded in MEA From hiPSC-CM. *Raphel, F.*, +, *TBME June 2018 1311-1319*
- Multi-Views Fusion CNN for Left Ventricular Volumes Estimation on Cardiac MR Images. *Luo, G.*, +, *TBME Sept. 2018 1924-1934*
- Multiple Instance Dictionary Learning for Beat-to-Beat Heart Rate Monitoring From Ballistocardiograms. *Jiao, C.*, +, *TBME Nov. 2018 2634-2648*
- Noninvasive *In-Situ* Measurement of Blood Lactate Using Microwave Sensors. *Mason, A.*, +, *TBME March 2018 698-705*
- PARHELIA: Particle Filter-Based Heart Rate Estimation From Photoplethysmographic Signals During Physical Exercise. *Fujita, Y.*, +, *TBME Jan. 2018 189-198*
- Three-Dimensional Noninvasive Imaging of Ventricular Arrhythmias in Patients With Premature Ventricular Contractions. *Yu, L.*, +, *TBME July 2018 1495-1503*

Cardiovascular system

- A Centerline-Based Model Morphing Algorithm for Patient-Specific Finite Element Modeling of the Left Ventricle. *Behddadfar, S.*, +, *TBME June 2018 1391-1398*
- A Fiber Bragg Grating Sensor for Radial Artery Pulse Waveform Measurement. *Jia, D.*, +, *TBME April 2018 839-846*
- A Lumped Parameter Model to Study Atrioventricular Valve Regurgitation in Stage 1 and Changes Across Stage 2 Surgery in Single Ventricle Patients. *Pant, S.*, +, *TBME Nov. 2018 2450-2458*
- A Model for Estimating the Blood Flow of the POLVAD Pulsatile Ventricular Assist Device. *Siewnicka, A.*, +, *TBME Nov. 2018 2552-2559*
- A Regularized Deep Learning Approach for Clinical Risk Prediction of Acute Coronary Syndrome Using Electronic Health Records. *Huang, Z.*, +, *TBME May 2018 956-968*
- Aortic Pressure Estimation Using Blind Identification Approach on Single Input Multiple Output Nonlinear Wiener Systems. *Patel, A.M.*, +, *TBME June 2018 1193-1200*
- Closed-Loop Vagus Nerve Stimulation Based on State Transition Models. *Romero-Ugalde, H.M.*, +, *TBME July 2018 1630-1638*
- Color Retinal Image Enhancement Based on Luminosity and Contrast Adjustment. *Zhou, M.*, +, *TBME March 2018 521-527*
- Enhancement of Intercellular Electrical Synchronization by Conductive Materials in Cardiac Tissue Engineering. *Wu, Y.*, +, *TBME Feb. 2018 264-272*
- Identification of Ultrasonic Echo-lucent Carotid Plaques Using Discrete Fréchet Distance Between Bimodal Gamma Distributions. *Huang, X.*, +, *TBME May 2018 949-955*
- Instantaneous Transfer Entropy for the Study of Cardiovascular and Cardiorespiratory Nonstationary Dynamics. *Valenza, G.*, +, *TBME May 2018 1077-1085*
- Methods for Improved Discrimination Between Ventricular Fibrillation and Tachycardia. *Alwan, Y.*, +, *TBME Oct. 2018 2143-2151*
- Mortality Prediction in Severe Congestive Heart Failure Patients With Multifractal Point-Process Modeling of Heartbeat Dynamics. *Valenza, G.*, +, *TBME Oct. 2018 2345-2354*
- N-Point Moving Average: A Special Generalized Transfer Function Method for Estimation of Central Aortic Blood Pressure. *Xiao, H.*, +, *TBME June 2018 1226-1234*
- Noninvasive Assessment of Jugular Venous Pressure via Force-Coupled Single Crystal Ultrasound. *Singh, R.*, +, *TBME Aug. 2018 1705-1710*
- Passive Wearable Skin Patch Sensor Measures Limb Hemodynamics Based on Electromagnetic Resonance. *Cluff, K.*, +, *TBME April 2018 847-856*
- ResCSRf: Algorithm to Automatically Extract Cheyne–Stokes Respiration Features From Respiratory Signals. *Javed, F.*, +, *TBME March 2018 669-677*
- Sleep-Dependent Directional Coupling of Cardiorespiratory System in Patients With Obstructive Sleep Apnea. *Yoon, H.*, +, *TBME Dec. 2018 2847-2854*
- Spatially Resolved MR-Compatible Doppler Ultrasound: Proof of Concept for Triggering of Diagnostic Quality Cardiovascular MRI for Function and Flow Quantification at 3T. *Crowe, L.A.*, +, *TBME Feb. 2018 294-306*
- Three-Dimensional Noninvasive Imaging of Ventricular Arrhythmias in Patients With Premature Ventricular Contractions. *Yu, L.*, +, *TBME July 2018 1495-1503*

- Time-Dependent Behavior of Microvascular Blood Flow and Oxygenation: A Predictor of Functional Outcomes. *Kuliga, K.Z.*, +, *TBME May 2018 1049-1056*
- Understanding Irregularity Characteristics of Short-Term HRV Signals Using Sample Entropy Profile. *Udhayakumar, R.K.*, +, *TBME Nov. 2018 2569-2579*
- Viscosity Prediction in a Physiologically Controlled Ventricular Assist Device. *Petrou, A.*, +, *TBME Oct. 2018 2355-2364*

Cascade control

- Design and Development of Surgeon Augmented Endovascular Robotic System. *Sankaran, N.K.*, +, *TBME Nov. 2018 2483-2493*

Catheters

- Arrhythmia Mechanism and Scaling Effect on the Spectral Properties of Electroanatomical Maps With Manifold Harmonics. *Sanroman-Junquera, M.*, +, *TBME April 2018 723-732*
- Automatic Identification of Reentry Mechanisms and Critical Sites During Atrial Tachycardia by Analyzing Areas of Activity. *Oesterlein, T.G.*, +, *TBME Oct. 2018 2334-2344*
- Cellular Obstruction Clearance in Proximal Ventricular Catheters Using Low-Voltage Joule Heating. *Sane, A.*, +, *TBME Nov. 2018 2503-2511*
- Endocardial Energy Harvesting by Electromagnetic Induction. *Zurbuchen, A.*, +, *TBME Feb. 2018 424-430*
- Magnet-Assisted Hydraulic Bougienage for Correction of Long-Gap Esophageal Atresia. *Noh, M.*, +, *TBME Oct. 2018 2178-2189*
- MRI-Guided Robotically Assisted Focal Laser Ablation of the Prostate Using Canine Cadavers. *Chen, Y.*, +, *TBME July 2018 1434-1442*
- Real-Time Blood Pressure Estimation From Force-Measured Ultrasound. *Zakrzewski, A.M.*, +, *TBME Nov. 2018 2405-2416*
- Sparse Ultrasound Image Reconstruction From a Shape-Sensing Single-Element Forward-Looking Catheter. *Janjic, J.*, +, *TBME Oct. 2018 2210-2218*
- Unambiguous Identification and Visualization of an Acoustically Active Catheter by Ultrasound Imaging in Real Time: Theory, Algorithm, and Phantom Experiments. *Kumar, V.*, +, *TBME July 2018 1468-1475*

Causality

- Robust Nonlinear Causality Analysis of Nonstationary Multivariate Physiological Time Series. *Schack, T.*, +, *TBME June 2018 1213-1225*

Cells (biology)

- Effect of Low-Field High-Frequency nsPEFs on the Biological Behaviors of Human A375 Melanoma Cells. *Zhang, B.*, +, *TBME Sept. 2018 2093-2100*

Cellular biophysics

- In Vivo* Superresolution Imaging of Neuronal Structure in the Mouse Brain. *Urban, B.E.*, +, *TBME Jan. 2018 232-238*
- A Flexure-Guided Piezo Drill for Penetrating the Zona Pellucida of Mammalian Oocytes. *Johnson, W.*, +, *TBME March 2018 678-686*
- A High-Resolution Minimicroscope System for Wireless Real-Time Monitoring. *Wang, Z.*, +, *TBME July 2018 1524-1531*
- A Method for Collecting Single Cell Suspensions Using an Ultrasonic Pump. *Nakao, M.*, +, *TBME Jan. 2018 224-231*
- A Three-Dimensional Arrayed Microfluidic Blood–Brain Barrier Model With Integrated Electrical Sensor Array. *Jeong, S.*, +, *TBME Feb. 2018 431-439*
- Cellular Obstruction Clearance in Proximal Ventricular Catheters Using Low-Voltage Joule Heating. *Sane, A.*, +, *TBME Nov. 2018 2503-2511*
- Closed-Loop Lumped Parameter Modeling of Hemodynamics During Cirrhogenesis in Rats. *Audebert, C.*, +, *TBME Oct. 2018 2311-2322*
- Effect of Tissue Heterogeneity on the Transmembrane Potential of Type-1 Spiral Ganglion Neurons: A Simulation Study. *Sriperumbudur, K.K.*, +, *TBME March 2018 658-668*
- Electrothermal Equivalent Three-Dimensional Finite-Element Model of a Single Neuron. *Cinelli, I.*, +, *TBME June 2018 1373-1381*
- Feature-Based Representation Improves Color Decomposition and Nuclear Detection Using a Convolutional Neural Network. *Khoshdeli, M.*, +, *TBME March 2018 625-634*
- From Cell to Tissue Properties—Modeling Skin Electroporation With Pore and Local Transport Region Formation. *Dermol-Cerne, J.*, +, *TBME Feb. 2018 458-468*
- Identification of Ion Currents Components Generating Field Potential Recorded in MEA From hiPSC-CM. *Raphel, F.*, +, *TBME June 2018 1311-1319*
- Low-to-High Cross-Frequency Coupling in the Electrical Rhythms as Biomarker for Hyperexcitable Neuroglial Networks of the Brain. *Grigorenko, V.*, +, *TBME July 2018 1504-1515*
- Modeling of Electroporation Induced by Pulsed Electric Fields in Irregularly Shaped Cells. *Mescia, L.*, +, *TBME Feb. 2018 414-423*

- Sequential Therapeutic Response Modeling for Tumor Treatment Using Computational Hybrid Control Systems Approach. *Oduola, W.O.*, +, *TBME April 2018 866-874*
- Three-Dimensional Segmentation of the *Ex-Vivo* Anterior Lamina Cribrosa From Second-Harmonic Imaging Microscopy. *Ram, S.*, +, *TBME July 2018 1617-1629*
- Treatment of Cancer In Vitro Using Radiation and High-Frequency Bursts of Submicrosecond Electrical Pulses. *Sano, M.B.*, +, *TBME April 2018 928-935*
- Ultra-Wideband Millimeter-Wave Dielectric Characteristics of Freshly Excised Normal and Malignant Human Skin Tissues. *Mirbeik-Sabzevari, A.*, +, *TBME June 2018 1320-1329*
- Visual Servoed Three-Dimensional Rotation Control in Zebrafish Larva Heart Microinjection System. *Zhuang, S.*, +, *TBME Jan. 2018 64-73*
- WaveDec: A Wavelet Approach to Identify Both Shared and Individual Patterns of Copy-Number Variations. *Cai, H.*, +, *TBME Feb. 2018 353-364*
- Chemical sensors**
- Reduction of Blood Glucose Measurements to Calibrate Subcutaneous Glucose Sensors: A Bayesian Multiday Framework. *Acciaroli, G.*, +, *TBME March 2018 587-595*
- Type-1 Diabetes Patient Decision Simulator for In Silico Testing Safety and Effectiveness of Insulin Treatments. *Vettoretti, M.*, +, *TBME June 2018 1281-1290*
- Chemical shift**
- Single-Scan High-Resolution 2-D J-Resolved Spectroscopy in Inhomogeneous Magnetic Fields. *Wang, K.*, +, *TBME Feb. 2018 440-448*
- Circulatory system**
- Detecting Vascular Age Using the Analysis of Peripheral Pulse. *Sorelli, M.*, +, *TBME Dec. 2018 2742-2750*
- Classification algorithms**
- Inertial Sensing for Gait Event Detection and Transfemoral Prosthesis Control Strategy. *Ledoux, E.D.*, *TBME Dec. 2018 2704-2712*
- Closed loop systems**
- Closed-Loop Control for Precision Antimicrobial Delivery: An In Silico Proof-of-Concept. *Herrero, P.*, +, *TBME Oct. 2018 2231-2236*
- Closed-Loop Vagus Nerve Stimulation Based on State Transition Models. *Romero-Ugalde, H.M.*, +, *TBME July 2018 1630-1638*
- Event-Triggered Model Predictive Control for Embedded Artificial Pancreas Systems. *Chakrabarty, A.*, +, *TBME March 2018 575-586*
- Extremum Seeking Control for Personalized Zone Adaptation in Model Predictive Control for Type 1 Diabetes. *Cao, Z.*, +, *TBME Aug. 2018 1859-1870*
- Clothing**
- Feasibility of a Biomechanically-Assistive Garment to Reduce Low Back Loading During Leaning and Lifting. *Lamers, E.P.*, +, *TBME Aug. 2018 1674-1680*
- Cochlear implants**
- Effect of Tissue Heterogeneity on the Transmembrane Potential of Type-1 Spiral Ganglion Neurons: A Simulation Study. *Sriperumbudur, K.K.*, +, *TBME March 2018 658-668*
- Impedance Measures During in vitro Cochlear Implantation Predict Array Positioning. *Giardina, C.K.*, +, *TBME Feb. 2018 327-335*
- Code division multiple access**
- A Brain-Computer Interface Based on Miniature-Event-Related Potentials Induced by Very Small Lateral Visual Stimuli. *Xu, M.*, +, *TBME May 2018 1166-1175*
- Cognition**
- Developing a Nonstationary Computational Framework With Application to Modeling Dynamic Modulations in Neural Spiking Responses. *Akbarian, A.*, +, *TBME Feb. 2018 241-253*
- Screening for Cognitive Impairment by Model-Assisted Cerebral Blood Flow Estimation. *Lassila, T.*, +, *TBME July 2018 1654-1661*
- Coherence**
- EEG Spectral Coherence Analysis in Nocturnal Epilepsy. *Busonera, G.*, +, *TBME Dec. 2018 2713-2719*
- Coils**
- An Adjustable-Length Dipole Using Forced-Current Excitation for 7T MR. *Cui, J.*, +, *TBME Oct. 2018 2259-2266*
- Micromagnetic Stimulation of the Mouse Auditory Cortex In Vivo Using an Implantable Solenoid System. *Minusa, S.*, +, *TBME June 2018 1301-1310*
- Spiral Gradient Coil Design for Use in Cylindrical MRI Systems. *Wang, Y.*, +, *TBME April 2018 911-920*
- Communication system security**
- Heartbeats Based Biometric Random Binary Sequences Generation to Secure Wireless Body Sensor Networks. *Pirbhulal, S.*, +, *TBME Dec. 2018 2751-2759*
- Compressed sensing**
- Accelerated Cardiac Diffusion Tensor Imaging Using Joint Low-Rank and Sparsity Constraints. *Ma, S.*, +, *TBME Oct. 2018 2219-2230*
- Coded-Aperture Compressed Sensing X-Ray Luminescence Tomography. *Tzoumas, S.*, +, *TBME Aug. 2018 1892-1895*
- Deep Residual Learning for Accelerated MRI Using Magnitude and Phase Networks. *Lee, D.*, +, *TBME Sept. 2018 1985-1995*
- Fast and Stable Signal Deconvolution via Compressible State-Space Models. *Kazempour, A.*, +, *TBME Jan. 2018 74-86*
- Low Rank Enhanced Matrix Recovery of Hybrid Time and Frequency Data in Fast Magnetic Resonance Spectroscopy. *Lu, H.*, +, *TBME April 2018 809-820*
- Matched Filtering for Heart Rate Estimation on Compressive Sensing ECG Measurements. *Da Poian, G.*, +, *TBME June 2018 1349-1358*
- Compressibility**
- Characterization and Modeling of Tissue Thermal Conductivity During an Electrosurgical Joining Process. *Yang, C.*, +, *TBME Feb. 2018 365-370*
- Computational complexity**
- Reducing the Computational Complexity of EEG Source Localization With Cortical Patch Decomposition and Optimal Electrode Selection. *Safavi, S.M.*, +, *TBME Oct. 2018 2298-2310*
- Computational modeling**
- A Quasi-Static Boundary Element Approach With Fast Multipole Acceleration for High-Resolution Bioelectromagnetic Models. *Makarov, S.N.*, +, *TBME Dec. 2018 2675-2683*
- An Optimization-Based Algorithm for the Construction of Cardiac Purkinje Network Models. *Ulysses, J.N.*, +, *TBME Dec. 2018 2760-2768*
- RF Channel Modeling for Implant-to-Implant Communication and Implant to Subcutaneous Implant Communication for Future Leadless Cardiac Pacemakers. *Bose, P.*, +, *TBME Dec. 2018 2798-2807*
- Computed tomography**
- Medical Image Synthesis with Deep Convolutional Adversarial Networks. *Nie, D.*, +, *TBME Dec. 2018 2720-2730*
- Computer vision**
- A Centerline-Based Model Morphing Algorithm for Patient-Specific Finite Element Modeling of the Left Ventricle. *Behadfar, S.*, +, *TBME June 2018 1391-1398*
- Fusing Partial Camera Signals for Noncontact Pulse Rate Variability Measurement. *McDuff, D.J.*, +, *TBME Aug. 2018 1725-1739*
- Representing Medical Images With Encoded Local Projections. *Tizhoosh, H.R.*, +, *TBME Oct. 2018 2267-2277*
- Visual Servoed Three-Dimensional Rotation Control in Zebrafish Larva Heart Microinjection System. *Zhuang, S.*, +, *TBME Jan. 2018 64-73*
- Computerized monitoring**
- A High-Resolution Minimicroscope System for Wireless Real-Time Monitoring. *Wang, Z.*, +, *TBME July 2018 1524-1531*
- Computerized tomography**
- Closed-Loop Lumped Parameter Modeling of Hemodynamics During Cirrhogenesis in Rats. *Audebert, C.*, +, *TBME Oct. 2018 2311-2322*
- Coded-Aperture Compressed Sensing X-Ray Luminescence Tomography. *Tzoumas, S.*, +, *TBME Aug. 2018 1892-1895*
- Highly Accurate Facial Nerve Segmentation Refinement From CBCT/CT Imaging Using a Super-Resolution Classification Approach. *Lu, P.*, +, *TBME Jan. 2018 178-188*
- Learning Based Segmentation of CT Brain Images: Application to Postoperative Hydrocephalic Scans. *Cherukuri, V.*, +, *TBME Aug. 2018 1871-1884*
- Minimizing the Translation Error in the Application of an Oblique Single-Cut Rotation Osteotomy: Where to Cut?. *Dobbe, J.G.G.*, +, *TBME April 2018 821-827*
- Orbit Segmentation by Surface Reconstruction With Automatic Sliced Vertex Screening. *Hsung, T.*, +, *TBME April 2018 828-838*
- Semiautomatic Radiofrequency Ablation Planning Based on Constrained Clustering Process for Hepatic Tumors. *Chen, R.*, +, *TBME March 2018 645-657*
- Spatial Evidential Clustering With Adaptive Distance Metric for Tumor Segmentation in FDG-PET Images. *Lian, C.*, +, *TBME Jan. 2018 21-30*
- Three-Dimensional Noninvasive Imaging of Ventricular Arrhythmias in Patients With Premature Ventricular Contractions. *Yu, L.*, +, *TBME July 2018 1495-1503*
- Three-Dimensional Weighting in Cone Beam FBP Reconstruction and Its Transformation Over Geometries. *Tang, S.*, +, *TBME June 2018 1235-1244*

Control system synthesis

- Closed-Loop Vagus Nerve Stimulation Based on State Transition Models. *Romero-Ugalde, H.M.*, +, *TBME July 2018 1630-1638*
- Model Free iPID Control for Glycemia Regulation of Type-1 Diabetes. *MohammadRidha, T.*, +, *TBME Jan. 2018 199-206*
- Optimal Mixed Tracking/Impedance Control With Application to Transfemoral Prostheses With Energy Regeneration. *Khademi, G.*, +, *TBME April 2018 894-910*

Convolution

- A Cascaded Deep Convolutional Neural Network for Joint Segmentation and Genotype Prediction of Brainstem Gliomas. *Liu, J.*, +, *TBME Sept. 2018 1943-1952*
- Focal Onset Seizure Prediction Using Convolutional Networks. *Khan, H.*, +, *TBME Sept. 2018 2109-2118*
- Multi-Views Fusion CNN for Left Ventricular Volumes Estimation on Cardiac MR Images. *Luo, G.*, +, *TBME Sept. 2018 1924-1934*

Convolutional neural networks

- Guest Editorial Special Issue on Deep Learning in Medical Imaging. *Shen, D.*, +, *TBME Sept. 2018 1898-1899*

Cornea

- Three-Dimensional Model of Electroretinogram Field Potentials in the Rat Eye. *Selner, A.N.*, +, *TBME Dec. 2018 2781-2789*

Correlation

- A Robust Fusion Model for Estimating Respiratory Rate From Photoplethysmography and Electrocardiography. *Birrenkott, D.A.*, +, *TBME Sept. 2018 2033-2041*
- Asynchronous Brain-Computer Interfacing Based on Mixed-Coded Visual Stimuli. *Suefusa, K.*, +, *TBME Sept. 2018 2119-2129*

Correlation methods

- Cardio-Pulmonary Stethoscope: Clinical Validation With Heart Failure and Hemodialysis Patients. *Iskander, M.F.*, +, *TBME May 2018 1176-1180*

Covariance matrices

- Computationally Efficient Algorithms for Sparse, Dynamic Solutions to the EEG Source Localization Problem. *Pirondini, E.*, +, *TBME June 2018 1359-1372*
- Semiblind Spectral Factorization Approach for Magnetic Resonance Spectroscopy Quantification. *Ferdowsi, S.*, +, *TBME Aug. 2018 1717-1724*
- Transfer Learning: A Riemannian Geometry Framework With Applications to Brain-Computer Interfaces. *Zanini, P.*, +, *TBME May 2018 1107-1116*

Creep

- Automated *In Vivo* Sub-Hertz Analysis of Viscoelasticity (SAVE) for Evaluation of Breast Lesions. *Bayat, M.*, +, *TBME Oct. 2018 2237-2247*

Crystals

- PMN-PT Single Crystal Ultrasonic Transducer With Half-Concave Geometric Design for IVUS Imaging. *Fei, C.*, +, *TBME Sept. 2018 2087-2092*

Current distribution

- An Adjustable-Length Dipole Using Forced-Current Excitation for 7T MR. *Cui, J.*, +, *TBME Oct. 2018 2259-2266*

Current measurement

- EEG for Current With Two-Dimensional Support. *Dassios, G.*, +, *TBME Sept. 2018 2101-2108*

Curvelet transforms

- Automatic Detection of Retinal Lesions for Screening of Diabetic Retinopathy. *Kar, S.S.*, +, *TBME March 2018 608-618*

Cutting

- Procedure-Specific Validation of Artificial Vertebrae. *Hollensteiner, M.*, +, *TBME Aug. 2018 1852-1858*

D**Data acquisition**

- A Delayed-Excitation Data Acquisition Method for High-Frequency Ultrasound Imaging. *Qiu, W.*, +, *TBME Jan. 2018 15-20*
- Mechanical Imaging of Soft Tissues With a Highly Compliant Tactile Sensing Array. *Li, B.*, +, *TBME March 2018 687-697*
- Spatially Resolved MR-Compatible Doppler Ultrasound: Proof of Concept for Triggering of Diagnostic Quality Cardiovascular MRI for Function and Flow Quantification at 3T. *Crowe, L.A.*, +, *TBME Feb. 2018 294-306*

Data analysis

- A Machine Learning Approach to Automated Gait Analysis for the Noldus Catwalk System. *Frohlich, H.*, +, *TBME May 2018 1133-1139*
- A Procedure for the Automatic Analysis of High-Resolution Manometry Data to Support the Clinical Diagnosis of Esophageal Motility Disorders. *Frigo, A.*, +, *TBME July 2018 1476-1485*

Adaptive Sparse Multiple Canonical Correlation Analysis With Application to Imaging (Epi)Genomics Study of Schizophrenia. *Hu, W.*, +, *TBME Feb. 2018 390-399*

Tensor Decomposition of Gait Dynamics in Parkinson's Disease. *Pham, T.D.*, +, *TBME Aug. 2018 1820-1827*

Time-Varying Time-Frequency Complexity Measures for Epileptic EEG Data Analysis. *Colominas, M.A.*, +, *TBME Aug. 2018 1681-1688*

Data handling

Simple, Transparent, and Flexible Automated Quality Assessment Procedures for Ambulatory Electrodermal Activity Data. *Kleckner, I.R.*, +, *TBME July 2018 1460-1467*

Data integration

Adaptive Sparse Multiple Canonical Correlation Analysis With Application to Imaging (Epi)Genomics Study of Schizophrenia. *Hu, W.*, +, *TBME Feb. 2018 390-399*

Data mining

Acoustical Emission Analysis by Unsupervised Graph Mining: A Novel Biomarker of Knee Health Status. *Hersek, S.*, +, *TBME June 2018 1291-1300*

Data models

- Estimating Brain Connectivity With Varying-Length Time Lags Using a Recurrent Neural Network. *Wang, Y.*, +, *TBME Sept. 2018 1953-1963*
- Modeling Subcutaneous Absorption of Fast-Acting Insulin in Type 1 Diabetes. *Schiavon, M.*, +, *TBME Sept. 2018 2079-2086*

Decision making

Simple, Transparent, and Flexible Automated Quality Assessment Procedures for Ambulatory Electrodermal Activity Data. *Kleckner, I.R.*, +, *TBME July 2018 1460-1467*

Decision trees

- Prediction of Hemorrhagic Transformation Severity in Acute Stroke From Source Perfusion MRI. *Yu, Y.*, +, *TBME Sept. 2018 2058-2065*
- Turn Intent Detection For Control of a Lower Limb Prosthesis. *Pew, C.*, +, *TBME April 2018 789-796*

Decoding

- A Comparison of Intention Estimation Methods for Decoder Calibration in Intracortical Brain-Computer Interfaces. *Willett, F.R.*, +, *TBME Sept. 2018 2066-2078*
- Asynchronous Brain-Computer Interfacing Based on Mixed-Coded Visual Stimuli. *Suefusa, K.*, +, *TBME Sept. 2018 2119-2129*

Deconvolution

- Fast and Stable Signal Deconvolution via Compressible State-Space Models. *Kazempour, A.*, +, *TBME Jan. 2018 74-86*
- Multiaccess *In Vivo* Biotelemetry Using Sonomicrometry and M-Scan Ultrasound Imaging. *Kondapalli, S.H.*, +, *TBME Jan. 2018 149-158*

Detectors

Is EMG a Viable Alternative to BCI for Detecting Movement Intention in Severe Stroke?. *Balasubramanian, S.*, +, *TBME Dec. 2018 2790-2797*

Diagnostic radiography

Using Microbubble as Contrast Agent for High-Energy X-Ray In-line Phase Contrast Imaging: Demonstration and Comparison Study. *Wu, D.*, +, *TBME May 2018 1117-1123*

Dielectric properties

From Cell to Tissue Properties—Modeling Skin Electroporation With Pore and Local Transport Region Formation. *Dermol-Cerne, J.*, +, *TBME Feb. 2018 458-468*

Differential equations

On the Feasibility of Automated Mechanical Ventilation Control Through EIT. *Tregidgo, H.F.J.*, +, *TBME Nov. 2018 2459-2470*

Diseases

- A Centerline-Based Model Morphing Algorithm for Patient-Specific Finite Element Modeling of the Left Ventricle. *Behdadfar, S.*, +, *TBME June 2018 1391-1398*
- A Fiber Bragg Grating Sensor for Radial Artery Pulse Waveform Measurement. *Jia, D.*, +, *TBME April 2018 839-846*
- A Lumped Parameter Model to Study Atrioventricular Valve Regurgitation in Stage 1 and Changes Across Stage 2 Surgery in Single Ventricle Patients. *Pant, S.*, +, *TBME Nov. 2018 2450-2458*
- A Machine Learning Approach to Automated Gait Analysis for the Noldus Catwalk System. *Frohlich, H.*, +, *TBME May 2018 1133-1139*
- A Methodology for Non-Invasive 3-D Surveillance of Arteriovenous Fistulae Using Freehand Ultrasound. *Colley, E.*, +, *TBME Aug. 2018 1885-1891*
- A Procedure for the Automatic Analysis of High-Resolution Manometry Data to Support the Clinical Diagnosis of Esophageal Motility Disorders. *Frigo, A.*, +, *TBME July 2018 1476-1485*

- A Regularized Deep Learning Approach for Clinical Risk Prediction of Acute Coronary Syndrome Using Electronic Health Records. *Huang, Z., +, TBME May 2018 956-968*
- A Time-Varying Nonparametric Methodology for Assessing Changes in QT Variability Unrelated to Heart Rate Variability. *Orini, M., +, TBME July 2018 1443-1451*
- Acoustical Emission Analysis by Unsupervised Graph Mining: A Novel Biomarker of Knee Health Status. *Hersek, S., +, TBME June 2018 1291-1300*
- An Automated System for the Detection and Classification of Retinal Changes Due to Red Lesions in Longitudinal Fundus Images. *Adal, K.M., +, TBME June 2018 1382-1390*
- An Interactive Simulator for Imposing Virtual Musculoskeletal Dynamics. *Hasson, C.J., TBME March 2018 539-549*
- Aortic Pressure Estimation Using Blind Identification Approach on Single Input Multiple Output Nonlinear Wiener Systems. *Patel, A.M., +, TBME June 2018 1193-1200*
- Automated Detection of Postictal Generalized EEG Suppression. *Theeranaew, W., +, TBME Feb. 2018 371-377*
- Automatic Detection of Retinal Lesions for Screening of Diabetic Retinopathy. *Kar, S.S., +, TBME March 2018 608-618*
- Automatic Subretinal Fluid Segmentation of Retinal SD-OCT Images With Neurosensory Retinal Detachment Guided by Enface Fundus Imaging. *Wu, M., +, TBME Jan. 2018 87-95*
- Bi-Modal Arterial Compliance Probe for Calibration-Free Cuffless Blood Pressure Estimation. *P.M. N., +, TBME Nov. 2018 2392-2404*
- Cellular Obstruction Clearance in Proximal Ventricular Catheters Using Low-Voltage Joule Heating. *Sane, A., +, TBME Nov. 2018 2503-2511*
- Closed-Loop Control for Precision Antimicrobial Delivery: An *In Silico* Proof-of-Concept. *Herrero, P., +, TBME Oct. 2018 2231-2236*
- Closed-Loop Lumped Parameter Modeling of Hemodynamics During Cirrhogenesis in Rats. *Audebert, C., +, TBME Oct. 2018 2311-2322*
- Color Retinal Image Enhancement Based on Luminosity and Contrast Adjustment. *Zhou, M., +, TBME March 2018 521-527*
- Computerized Lung Sound Screening for Pediatric Auscultation in Noisy Field Environments. *Emmanouilidou, D., +, TBME July 2018 1564-1574*
- Continuous Assessment of Levodopa Response in Parkinson's Disease Using Wearable Motion Sensors. *Pulliam, C.L., +, TBME Jan. 2018 159-164*
- Critical Closing Pressure During Controlled Increase in Intracranial Pressure—Comparison of Three Methods. *Kaczmarek, K., +, TBME March 2018 619-624*
- Cuffless Estimation of Blood Pressure: Importance of Variability in Blood Pressure Dependence of Arterial Stiffness Across Individuals and Measurement Sites. *Butlin, M., +, TBME Nov. 2018 2377-2383*
- Curved-Array-Based Multispectral Photoacoustic Imaging of Human Finger Joints. *Huang, N., +, TBME July 2018 1452-1459*
- Deformable Image Registration Using a Cue-Aware Deep Regression Network. *Cao, X., +, TBME Sept. 2018 1900-1911*
- eCurves: A Temporal Shape Encoding. *Bernardis, E., +, TBME April 2018 733-744*
- Electrophysiological Muscle Classification Using Multiple Instance Learning and Unsupervised Time and Spectral Domain Analysis. *Kamali, T., +, TBME Nov. 2018 2494-2502*
- Enhancement of Intercellular Electrical Synchronization by Conductive Materials in Cardiac Tissue Engineering. *Wu, Y., +, TBME Feb. 2018 264-272*
- Evaluation of an Integrated System of Wearable Physiological Sensors for Stress Monitoring in Working Environments by Using Biological Markers. *Betti, S., +, TBME Aug. 2018 1748-1758*
- Event-Triggered Model Predictive Control for Embedded Artificial Pancreas Systems. *Chakrabarty, A., +, TBME March 2018 575-586*
- Extremum Seeking Control for Personalized Zone Adaptation in Model Predictive Control for Type 1 Diabetes. *Cao, Z., +, TBME Aug. 2018 1859-1870*
- Fully Automated Segmentation of Fluid/Cyst Regions in Optical Coherence Tomography Images With Diabetic Macular Edema Using Neutrosophic Sets and Graph Algorithms. *Rashno, A., +, TBME May 2018 989-1001*
- Generalisability of a Virtual Trials Method for Glycaemic Control in Intensive Care. *Dickson, J.L., +, TBME July 2018 1543-1553*
- Hypoperfusion Induced by Preconditioning Treadmill Training in Hyperearly Reperfusion After Cerebral Ischemia: A Laser Speckle Imaging Study. *He, Z., +, TBME Jan. 2018 219-223*
- Identification of Ultrasonic Echolucent Carotid Plaques Using Discrete Fréchet Distance Between Bimodal Gamma Distributions. *Huang, X., +, TBME May 2018 949-955*
- Improved Visualization of Gastrointestinal Slow Wave Propagation Using a Novel Wavefront-Orientation Interpolation Technique. *Mayne, T.P., +, TBME Feb. 2018 319-326*
- Instantaneous Transfer Entropy for the Study of Cardiovascular and Cardiorespiratory Nonstationary Dynamics. *Valenza, G., +, TBME May 2018 1077-1085*
- Interoperable End-to-End Remote Patient Monitoring Platform Based on IEEE 11073 PHD and ZigBee Health Care Profile. *Clarke, M., +, TBME May 2018 1014-1025*
- Joint Segment-Level and Pixel-Wise Losses for Deep Learning Based Retinal Vessel Segmentation. *Yan, Z., +, TBME Sept. 2018 1912-1923*
- Matched Filtering for Heart Rate Estimation on Compressive Sensing ECG Measurements. *Da Poian, G., +, TBME June 2018 1349-1358*
- Model Free iPID Control for Glycemia Regulation of Type-1 Diabetes. *MohammadRidha, T., +, TBME Jan. 2018 199-206*
- Modeling, Detecting, and Tracking Freezing of Gait in Parkinson Disease Using Inertial Sensors. *Prateek, G.V., +, TBME Oct. 2018 2152-2161*
- Monitoring Acute Stroke in Mouse Model Using Laser Speckle Imaging-Guided Visible-Light Optical Coherence Tomography. *Liu, Q., +, TBME Oct. 2018 2136-2142*
- Mortality Prediction in Severe Congestive Heart Failure Patients With Multifractal Point-Process Modeling of Heartbeat Dynamics. *Valenza, G., +, TBME Oct. 2018 2345-2354*
- Multi-Views Fusion CNN for Left Ventricular Volumes Estimation on Cardiac MR Images. *Luo, G., +, TBME Sept. 2018 1924-1934*
- Muscle Activation and Inertial Motion Data for Noninvasive Classification of Activities of Daily Living. *Totty, M.S., +, TBME May 2018 1069-1076*
- Novel Quantitative Analytical Approaches for Rotor Identification and Associated Implications for Mapping. *Annoni, E.M., +, TBME Feb. 2018 273-281*
- Passive Wearable Skin Patch Sensor Measures Limb Hemodynamics Based on Electromagnetic Resonance. *Cluff, K., +, TBME April 2018 847-856*
- Personalized Risk Scoring for Critical Care Prognosis Using Mixtures of Gaussian Processes. *Alaa, A.M., +, TBME Jan. 2018 207-218*
- Post-Ventricular Premature Contraction Phase Correction Improves the Predictive Value of Average T-Wave Alternans in Ambulatory ECG Recordings. *Martin-Yebra, A., +, TBME March 2018 635-644*
- Reducing the Computational Complexity of EEG Source Localization With Cortical Patch Decomposition and Optimal Electrode Selection. *Safavi, S.M., +, TBME Oct. 2018 2298-2310*
- Reduction of Blood Glucose Measurements to Calibrate Subcutaneous Glucose Sensors: A Bayesian Multiday Framework. *Acciaroli, G., +, TBME March 2018 587-595*
- Screening for Cognitive Impairment by Model-Assisted Cerebral Blood Flow Estimation. *Lassila, T., +, TBME July 2018 1654-1661*
- Semiblind Spectral Factorization Approach for Magnetic Resonance Spectroscopy Quantification. *Ferdowsi, S., +, TBME Aug. 2018 1717-1724*
- Simple, Transparent, and Flexible Automated Quality Assessment Procedures for Ambulatory Electrodermal Activity Data. *Kleckner, I.R., +, TBME July 2018 1460-1467*
- Sparse Ultrasound Image Reconstruction From a Shape-Sensing Single-Element Forward-Looking Catheter. *Janjic, J., +, TBME Oct. 2018 2210-2218*
- Tensor Decomposition of Gait Dynamics in Parkinson's Disease. *Pham, T.D., +, TBME Aug. 2018 1820-1827*
- Three-Dimensional Noninvasive Imaging of Ventricular Arrhythmias in Patients With Premature Ventricular Contractions. *Yu, L., +, TBME July 2018 1495-1503*
- Three-Dimensional Segmentation of the *Ex-Vivo* Anterior Lamina Cribrosa From Second-Harmonic Imaging Microscopy. *Ram, S., +, TBME July 2018 1617-1629*
- Time-Dependent Behavior of Microvascular Blood Flow and Oxygenation: A Predictor of Functional Outcomes. *Kuliga, K.Z., +, TBME May 2018 1049-1056*
- Toward a Run-to-Run Adaptive Artificial Pancreas: In Silico Results. *Toffanin, C., +, TBME March 2018 479-488*
- Tractography-Based Score for Learning Effective Connectivity From Multimodal Imaging Data Using Dynamic Bayesian Networks. *Dang, S., +, TBME May 2018 1057-1068*
- Type-1 Diabetes Patient Decision Simulator for In Silico Testing Safety and Effectiveness of Insulin Treatments. *Vettoretti, M., +, TBME June 2018 1281-1290*
- Understanding Irregularity Characteristics of Short-Term HRV Signals Using Sample Entropy Profile. *Udhayakumar, R.K., +, TBME Nov. 2018 2569-2579*

- Using Machine Learning and a Combination of Respiratory Flow, Laryngeal Motion, and Swallowing Sounds to Classify Safe and Unsafe Swallowing. *Inoue, K.*, +, *TBME Nov. 2018 2529-2541*
- Visual Servoed Three-Dimensional Rotation Control in Zebrafish Larva Heart Microinjection System. *Zhuang, S.*, +, *TBME Jan. 2018 64-73*
- Distortion measurement**
- Distortion Distribution of Neural Spike Train Sequence Matching With Optogenetics. *Noel, A.*, +, *TBME Dec. 2018 2814-2826*
- Doppler effect**
- Detecting Vascular Age Using the Analysis of Peripheral Pulse. *Sorelli, M.*, +, *TBME Dec. 2018 2742-2750*
- Spatially Resolved MR-Compatible Doppler Ultrasound: Proof of Concept for Triggering of Diagnostic Quality Cardiovascular MRI for Function and Flow Quantification at 3T. *Crowe, L.A.*, +, *TBME Feb. 2018 294-306*
- Doppler measurement**
- Automatic Early-Onset Free Flap Failure Detection for Implantable Biomedical Devices. *Rothfuss, M.A.*, +, *TBME Oct. 2018 2290-2297*
- Critical Closing Pressure During Controlled Increase in Intracranial Pressure—Comparison of Three Methods. *Kaczmarek, K.*, +, *TBME March 2018 619-624*
- Passive Wearable Skin Patch Sensor Measures Limb Hemodynamics Based on Electromagnetic Resonance. *Cluff, K.*, +, *TBME April 2018 847-856*
- Time-Dependent Behavior of Microvascular Blood Flow and Oxygenation: A Predictor of Functional Outcomes. *Kuliga, K.Z.*, +, *TBME May 2018 1049-1056*
- Doppler shift**
- Unambiguous Identification and Visualization of an Acoustically Active Catheter by Ultrasound Imaging in Real Time: Theory, Algorithm, and Phantom Experiments. *Kumar, V.*, +, *TBME July 2018 1468-1475*
- Dosimetry**
- Characterization and Modeling of Tissue Thermal Conductivity During an Electrosurgical Joining Process. *Yang, C.*, +, *TBME Feb. 2018 365-370*
- Using Microbubble as Contrast Agent for High-Energy X-Ray In-line Phase Contrast Imaging: Demonstration and Comparison Study. *Wu, D.*, +, *TBME May 2018 1117-1123*
- Drug delivery**
- A Smart Capsule With a Hydrogel-Based pH-Triggered Release Switch for GI-Tract Site-Specific Drug Delivery. *Jiang, H.*, +, *TBME Dec. 2018 2808-2813*
- Closed-Loop Control for Precision Antimicrobial Delivery: An *In Silico* Proof-of-Concept. *Herrero, P.*, +, *TBME Oct. 2018 2231-2236*
- Sequential Therapeutic Response Modeling for Tumor Treatment Using Computational Hybrid Control Systems Approach. *Oduola, W.O.*, +, *TBME April 2018 866-874*
- Drugs**
- A Machine Learning Approach to Automated Gait Analysis for the Noldus Catwalk System. *Frohlich, H.*, +, *TBME May 2018 1133-1139*
- A Three-Dimensional Arrayed Microfluidic Blood–Brain Barrier Model With Integrated Electrical Sensor Array. *Jeong, S.*, +, *TBME Feb. 2018 431-439*
- Closed-Loop Control for Precision Antimicrobial Delivery: An *In Silico* Proof-of-Concept. *Herrero, P.*, +, *TBME Oct. 2018 2231-2236*
- Identification of Ion Currents Components Generating Field Potential Recorded in MEA From hiPSC-CM. *Raphel, F.*, +, *TBME June 2018 1311-1319*
- Sequential Therapeutic Response Modeling for Tumor Treatment Using Computational Hybrid Control Systems Approach. *Oduola, W.O.*, +, *TBME April 2018 866-874*
- E**
- Ear**
- Ear-EEG-Based Objective Hearing Threshold Estimation Evaluated on Normal Hearing Subjects. *Christensen, C.B.*, +, *TBME May 2018 1026-1034*
- In-Ear Audio Wearable: Measurement of Heart and Breathing Rates for Health and Safety Monitoring. *Martin, A.*, +, *TBME June 2018 1256-1263*
- Pressure in the Cochlea During Infrared Irradiation. *Xia, N.*, +, *TBME July 2018 1575-1584*
- Ear protection**
- In-Ear Audio Wearable: Measurement of Heart and Breathing Rates for Health and Safety Monitoring. *Martin, A.*, +, *TBME June 2018 1256-1263*
- Eigenvalues and eigenfunctions**
- eCurves: A Temporal Shape Encoding. *Bernardis, E.*, +, *TBME April 2018 733-744*
- Elastic deformation**
- A Flexure-Guided Piezo Drill for Penetrating the Zona Pellucida of Mammalian Oocytes. *Johnson, W.*, +, *TBME March 2018 678-686*
- Real-Time Error Control for Surgical Simulation. *Bui, H.P.*, +, *TBME March 2018 596-607*
- Elasticity**
- A Flexure-Guided Piezo Drill for Penetrating the Zona Pellucida of Mammalian Oocytes. *Johnson, W.*, +, *TBME March 2018 678-686*
- Real-Time Blood Pressure Estimation From Force-Measured Ultrasound. *Zakrzewski, A.M.*, +, *TBME Nov. 2018 2405-2416*
- Real-Time Error Control for Surgical Simulation. *Bui, H.P.*, +, *TBME March 2018 596-607*
- Electric field integral equations**
- An Efficient Integral-Based Method for Three-Dimensional MR-EPT and the Calculation of the RF-Coil-Induced B_z Field. *Guo, L.*, +, *TBME Feb. 2018 282-293*
- The ICVSIE: A General Purpose Integral Equation Method for Bio-Electromagnetic Analysis. *Gomez, L.J.*, +, *TBME March 2018 565-574*
- Electric fields**
- A Quasi-Static Boundary Element Approach With Fast Multipole Acceleration for High-Resolution Bioelectromagnetic Models. *Makarov, S.N.*, +, *TBME Dec. 2018 2675-2683*
- Effect of Low-Field High-Frequency nsPEFs on the Biological Behaviors of Human A375 Melanoma Cells. *Zhang, B.*, +, *TBME Sept. 2018 2093-2100*
- Electric impedance imaging**
- An Efficient Integral-Based Method for Three-Dimensional MR-EPT and the Calculation of the RF-Coil-Induced B_z Field. *Guo, L.*, +, *TBME Feb. 2018 282-293*
- Magneto-acousto-electrical Measurement Based Electrical Conductivity Reconstruction for Tissues. *Zhou, Y.*, +, *TBME May 2018 1086-1094*
- On the Feasibility of Automated Mechanical Ventilation Control Through EIT. *Tregidgo, H.F.J.*, +, *TBME Nov. 2018 2459-2470*
- Skull Modeling Effects in Conductivity Estimates Using Parametric Electrical Impedance Tomography. *Fernandez-Corazza, M.*, +, *TBME Aug. 2018 1785-1797*
- Electric impedance measurement**
- Impedance Measures During in vitro Cochlear Implantation Predict Array Positioning. *Giardina, C.K.*, +, *TBME Feb. 2018 327-335*
- Electric potential**
- A Quasi-Static Boundary Element Approach With Fast Multipole Acceleration for High-Resolution Bioelectromagnetic Models. *Makarov, S.N.*, +, *TBME Dec. 2018 2675-2683*
- Three-Dimensional Model of Electroretinogram Field Potentials in the Rat Eye. *Selner, A.N.*, +, *TBME Dec. 2018 2781-2789*
- Electrical conductivity**
- Characterization of Conductivity Changes During High-Frequency Irreversible Electroporation for Treatment Planning. *Zhao, Y.*, +, *TBME Aug. 2018 1810-1819*
- Conductivity Anisotropy Influence on Acoustic Sources for Magnetoacoustic Tomography With Magnetic Induction. *Yu, Z.*, +, *TBME Nov. 2018 2512-2518*
- Dielectric Properties of *Ex Vivo* Porcine Liver Tissue Characterized at Frequencies Between 5 and 500 kHz When Heated at Different Rates. *Deas Yero, D.*, +, *TBME Nov. 2018 2560-2568*
- Enhancement of Intercellular Electrical Synchronization by Conductive Materials in Cardiac Tissue Engineering. *Wu, Y.*, +, *TBME Feb. 2018 264-272*
- Magneto-acousto-electrical Measurement Based Electrical Conductivity Reconstruction for Tissues. *Zhou, Y.*, +, *TBME May 2018 1086-1094*
- Skull Modeling Effects in Conductivity Estimates Using Parametric Electrical Impedance Tomography. *Fernandez-Corazza, M.*, +, *TBME Aug. 2018 1785-1797*
- Electrical conductivity measurement**
- Magneto-acousto-electrical Measurement Based Electrical Conductivity Reconstruction for Tissues. *Zhou, Y.*, +, *TBME May 2018 1086-1094*
- Electrical resistivity**
- A Three-Dimensional Arrayed Microfluidic Blood–Brain Barrier Model With Integrated Electrical Sensor Array. *Jeong, S.*, +, *TBME Feb. 2018 431-439*
- Enhancement of Intercellular Electrical Synchronization by Conductive Materials in Cardiac Tissue Engineering. *Wu, Y.*, +, *TBME Feb. 2018 264-272*
- Electrocardiography**
- A Novel Short-Term Event Extraction Algorithm for Biomedical Signals. *Yazdani, S.*, +, *TBME April 2018 754-762*

- A Potential-Based Inverse Spectral Method to Noninvasively Localize Discordant Distributions of Alternans on the Heart From the ECG. *Coll-Font, J.*, +, *TBME July 2018 1554-1563*
- A Robust Fusion Model for Estimating Respiratory Rate From Photoplethysmography and Electrocardiography. *Birrenkott, D.A.*, +, *TBME Sept. 2018 2033-2041*
- A Time-Varying Nonparametric Methodology for Assessing Changes in QT Variability Unrelated to Heart Rate Variability. *Orini, M.*, +, *TBME July 2018 1443-1451*
- Arrhythmia Mechanism and Scaling Effect on the Spectral Properties of Electroanatomical Maps With Manifold Harmonics. *Sanroman-Junquera, M.*, +, *TBME April 2018 723-732*
- Automatic Identification of Reentry Mechanisms and Critical Sites During Atrial Tachycardia by Analyzing Areas of Activity. *Oesterlein, T.G.*, +, *TBME Oct. 2018 2334-2344*
- Electrocardiogram Signal Quality Assessment Based on Structural Image Similarity Metric. *Shahriari, Y.*, +, *TBME April 2018 745-753*
- Evaluation of an Integrated System of Wearable Physiological Sensors for Stress Monitoring in Working Environments by Using Biological Markers. *Betti, S.*, +, *TBME Aug. 2018 1748-1758*
- Heart Sound Segmentation—An Event Detection Approach Using Deep Recurrent Neural Networks. *Messner, E.*, +, *TBME Sept. 2018 1964-1974*
- Heartbeats Based Biometric Random Binary Sequences Generation to Secure Wireless Body Sensor Networks. *Pirbhulal, S.*, +, *TBME Dec. 2018 2751-2759*
- In-Ear Audio Wearable: Measurement of Heart and Breathing Rates for Health and Safety Monitoring. *Martin, A.*, +, *TBME June 2018 1256-1263*
- Localization of Origins of Premature Ventricular Contraction by Means of Convolutional Neural Network From 12-Lead ECG. *Yang, T.*, +, *TBME July 2018 1662-1671*
- Matched Filtering for Heart Rate Estimation on Compressive Sensing ECG Measurements. *Da Poian, G.*, +, *TBME June 2018 1349-1358*
- Methods for Improved Discrimination Between Ventricular Fibrillation and Tachycardia. *Alwan, Y.*, +, *TBME Oct. 2018 2143-2151*
- Model-Based Assessment of f-Wave Signal Quality in Patients With Atrial Fibrillation. *Henriksson, M.*, +, *TBME Nov. 2018 2600-2611*
- Mortality Prediction in Severe Congestive Heart Failure Patients With Multifractal Point-Process Modeling of Heartbeat Dynamics. *Valenza, G.*, +, *TBME Oct. 2018 2345-2354*
- Novel Quantitative Analytical Approaches for Rotor Identification and Associated Implications for Mapping. *Annoni, E.M.*, +, *TBME Feb. 2018 273-281*
- Post-Ventricular Premature Contraction Phase Correction Improves the Predictive Value of Average T-Wave Alternans in Ambulatory ECG Recordings. *Martin-Yebra, A.*, +, *TBME March 2018 635-644*
- Robust Methods for Automated Selection of Cardiac Signals After Blind Source Separation. *Wedekind, D.*, +, *TBME Oct. 2018 2248-2258*
- Sleep-Dependent Directional Coupling of Cardiorespiratory System in Patients With Obstructive Sleep Apnea. *Yoon, H.*, +, *TBME Dec. 2018 2847-2854*
- The HF-CGM Study: An Analysis of Cardiogoniometric Axes in Patients With Cardiac Resynchronization Therapy. *Brown, O.I.*, +, *TBME Aug. 2018 1711-1716*
- Three-Dimensional Noninvasive Imaging of Ventricular Arrhythmias in Patients With Premature Ventricular Contractions. *Yu, L.*, +, *TBME July 2018 1495-1503*
- Two-Wire Bus Combining Full Duplex Body-Sensor Network and Multilead Biopotential Measurements. *Rapin, M.*, +, *TBME Jan. 2018 113-122*
- Electrochemical electrodes**
- Molecularly Imprinted Polymer-Based Electrochemical Biosensor for Bone Loss Detection. *Afsarimanesh, N.*, +, *TBME June 2018 1264-1271*
- Electrochemical impedance spectroscopy**
- Molecularly Imprinted Polymer-Based Electrochemical Biosensor for Bone Loss Detection. *Afsarimanesh, N.*, +, *TBME June 2018 1264-1271*
- Electrochemical sensors**
- Molecularly Imprinted Polymer-Based Electrochemical Biosensor for Bone Loss Detection. *Afsarimanesh, N.*, +, *TBME June 2018 1264-1271*
- Electrodes**
- An EOG-Based Human–Machine Interface for Wheelchair Control. *Huang, Q.*, +, *TBME Sept. 2018 2023-2032*
- EEG Spectral Coherence Analysis in Nocturnal Epilepsy. *Busonera, G.*, +, *TBME Dec. 2018 2713-2719*
- Novel Modeling of Somatosensory Evoked Potentials for the Assessment of Spinal Cord Injury. *Mir, H.*, +, *TBME March 2018 511-520*
- Three-Dimensional Model of Electroretinogram Field Potentials in the Rat Eye. *Selner, A.N.*, +, *TBME Dec. 2018 2781-2789*
- Visible Illumination Enhanced Nonenzymatic Glucose Photobiosensor Based on TiO₂ Nanorods Decorated With Au Nanoparticles. *Wang, S.*, +, *TBME Sept. 2018 2052-2057*
- Electroencephalography**
- A Brain–Computer Interface Based on Miniature-Event-Related Potentials Induced by Very Small Lateral Visual Stimuli. *Xu, M.*, +, *TBME May 2018 1166-1175*
- A Functional-Genetic Scheme for Seizure Forecasting in Canine Epilepsy. *Bou Assi, E.*, +, *TBME June 2018 1339-1348*
- A Novel Approach for Real-Time Recognition of Epileptic Seizures Using Minimum Variance Modified Fuzzy Entropy. *Raghu, S.*, +, *TBME Nov. 2018 2612-2621*
- A Novel Short-Term Event Extraction Algorithm for Biomedical Signals. *Yazdani, S.*, +, *TBME April 2018 754-762*
- A State Space and Density Estimation Framework for Sleep Staging in Obstructive Sleep Apnea. *Kang, D.Y.*, +, *TBME June 2018 1201-1212*
- An EOG-Based Human–Machine Interface for Wheelchair Control. *Huang, Q.*, +, *TBME Sept. 2018 2023-2032*
- Asynchronous Brain–Computer Interfacing Based on Mixed-Coded Visual Stimuli. *Suefusa, K.*, +, *TBME Sept. 2018 2119-2129*
- Automated Detection of Postictal Generalized EEG Suppression. *Theeranaew, W.*, +, *TBME Feb. 2018 371-377*
- Classification of Pre-Clinical Seizure States Using Scalp EEG Cross-Frequency Coupling Features. *Jacobs, D.*, +, *TBME Nov. 2018 2440-2449*
- Computationally Efficient Algorithms for Sparse, Dynamic Solutions to the EEG Source Localization Problem. *Pirondini, E.*, +, *TBME June 2018 1359-1372*
- Consistency of Long-Term Subdural Electrooculography in Humans. *Nurse, E.S.*, +, *TBME Feb. 2018 344-352*
- Decoding Covert Somatosensory Attention by a BCI System Calibrated With Tactile Sensation. *Yao, L.*, +, *TBME Aug. 2018 1689-1695*
- Ear-EEG-Based Objective Hearing Threshold Estimation Evaluated on Normal Hearing Subjects. *Christensen, C.B.*, +, *TBME May 2018 1026-1034*
- EEG for Current With Two-Dimensional Support. *Dassios, G.*, +, *TBME Sept. 2018 2101-2108*
- EEG Spectral Coherence Analysis in Nocturnal Epilepsy. *Busonera, G.*, +, *TBME Dec. 2018 2713-2719*
- EEG-Based Affect and Workload Recognition in a Virtual Driving Environment for ASD Intervention. *Fan, J.*, +, *TBME Jan. 2018 43-51*
- Electroencephalogram Based Detection of Deep Sedation in ICU Patients Using Atomic Decomposition. *Nagaraj, S.B.*, +, *TBME Dec. 2018 2684-2691*
- Electromagnetic Brain Source Imaging by Means of a Robust Minimum Variance Beamformer. *Hossein Hosseini, S.A.*, +, *TBME Oct. 2018 2365-2374*
- Enhancing Detection of SSVEPs for a High-Speed Brain Speller Using Task-Related Component Analysis. *Nakanishi, M.*, +, *TBME Jan. 2018 104-112*
- Epileptic Seizure Detection in Long-Term EEG Recordings by Using Wavelet-Based Directed Transfer Function. *Wang, D.*, +, *TBME Nov. 2018 2591-2599*
- Evaluation of an Integrated System of Wearable Physiological Sensors for Stress Monitoring in Working Environments by Using Biological Markers. *Betti, S.*, +, *TBME Aug. 2018 1748-1758*
- Fast and Stable Signal Deconvolution via Compressible State-Space Models. *Kazemipour, A.*, +, *TBME Jan. 2018 74-86*
- Feasibility of Automatic Error Detect-and-Undo System in Human Intracortical Brain–Computer Interfaces. *Even-Chen, N.*, +, *TBME Aug. 2018 1771-1784*
- Focal Onset Seizure Prediction Using Convolutional Networks. *Khan, H.*, +, *TBME Sept. 2018 2109-2118*
- Four Novel Motion Paradigms Based on Steady-State Motion Visual Evoked Potential. *Yan, W.*, +, *TBME Aug. 2018 1696-1704*
- Low-to-High Cross-Frequency Coupling in the Electrical Rhythms as Biomarker for Hyperexcitable Neuroglial Networks of the Brain. *Grigorenko, V.*, +, *TBME July 2018 1504-1515*
- Multiclass Classification of Word Imagination Speech With Hybrid Connectivity Features. *Qureshi, M.N.I.*, +, *TBME Oct. 2018 2168-2177*
- Reducing Sensor Noise in MEG and EEG Recordings Using Oversampled Temporal Projection. *Larson, E.*, +, *TBME May 2018 1002-1013*
- Reducing the Computational Complexity of EEG Source Localization With Cortical Patch Decomposition and Optimal Electrode Selection. *Safavi, S.M.*, +, *TBME Oct. 2018 2298-2310*

- Three-Dimensional Brain–Computer Interface Control Through Simultaneous Overt Spatial Attentional and Motor Imagery Tasks. *Meng, J.*, +, *TBME Nov. 2018 2417-2427*
- Time-Varying Time–Frequency Complexity Measures for Epileptic EEG Data Analysis. *Colominas, M.A.*, +, *TBME Aug. 2018 1681-1688*
- Transfer Learning: A Riemannian Geometry Framework With Applications to Brain–Computer Interfaces. *Zanini, P.*, +, *TBME May 2018 1107-1116*
- Electromagnetic induction**
- Conductivity Anisotropy Influence on Acoustic Sources for Magnetoacoustic Tomography With Magnetic Induction. *Yu, Z.*, +, *TBME Nov. 2018 2512-2518*
- Endocardial Energy Harvesting by Electromagnetic Induction. *Zurbuchen, A.*, +, *TBME Feb. 2018 424-430*
- Magneto-acousto-electrical Measurement Based Electrical Conductivity Reconstruction for Tissues. *Zhou, Y.*, +, *TBME May 2018 1086-1094*
- Electromagnetic wave absorption**
- The ICVSIE: A General Purpose Integral Equation Method for Bio-Electromagnetic Analysis. *Gomez, L.J.*, +, *TBME March 2018 565-574*
- Electromagnetic wave scattering**
- The ICVSIE: A General Purpose Integral Equation Method for Bio-Electromagnetic Analysis. *Gomez, L.J.*, +, *TBME March 2018 565-574*
- Electromagnetic waves**
- Noninvasive *In-Situ* Measurement of Blood Lactate Using Microwave Sensors. *Mason, A.*, +, *TBME March 2018 698-705*
- Electromechanical effects**
- Electrothermal Equivalent Three-Dimensional Finite-Element Model of a Single Neuron. *Cinelli, I.*, +, *TBME June 2018 1373-1381*
- Electromyography**
- An Interactive Simulator for Imposing Virtual Musculoskeletal Dynamics. *Hasson, C.J.*, *TBME March 2018 539-549*
- Dedicated Entropy Measures for Early Assessment of Pregnancy Progression From Single-Channel Electrohysterography. *Mischi, M.*, +, *TBME April 2018 875-884*
- Electrophysiological Muscle Classification Using Multiple Instance Learning and Unsupervised Time and Spectral Domain Analysis. *Kamali, T.*, +, *TBME Nov. 2018 2494-2502*
- Extracorporeal Stimulation of Sacral Nerve Roots for Observation of Pelvic Autonomic Nerve Integrity: Description of a Novel Methodological Setup. *Moszkowski, T.*, +, *TBME March 2018 550-555*
- Feasibility of a Biomechanically-Assistive Garment to Reduce Low Back Loading During Leaning and Lifting. *Lamers, E.P.*, +, *TBME Aug. 2018 1674-1680*
- Is EMG a Viable Alternative to BCI for Detecting Movement Intention in Severe Stroke?. *Balasubramanian, S.*, +, *TBME Dec. 2018 2790-2797*
- Limb Position Tolerant Pattern Recognition for Myoelectric Prosthesis Control with Adaptive Sparse Representations From Extreme Learning. *Bethausen, J.L.*, +, *TBME April 2018 770-778*
- Metabolic Effects Induced by a Kinematically Compatible Hip Exoskeleton During STS. *Junius, K.*, +, *TBME June 2018 1399-1409*
- Modeling of Stretch Reflex Activation Considering Muscle Type. *Kang, M.J.*, +, *TBME May 2018 980-988*
- Muscle Activation and Inertial Motion Data for Noninvasive Classification of Activities of Daily Living. *Totty, M.S.*, +, *TBME May 2018 1069-1076*
- Robust Real-Time Musculoskeletal Modeling Driven by Electromyograms. *Durandau, G.*, +, *TBME March 2018 556-564*
- Stimulation Efficiency With Decaying Exponential Waveforms in a Wirelessly Powered Switched-Capacitor Discharge Stimulation System. *Lee, H.*, +, *TBME May 2018 1095-1106*
- Translational Motion Tracking of Leg Joints for Enhanced Prediction of Walking Tasks. *Stolyarov, R.*, +, *TBME April 2018 763-769*
- User-Independent Intent Recognition for Lower Limb Prostheses Using Depth Sensing. *Massalin, Y.*, +, *TBME Aug. 2018 1759-1770*
- Electrooculography**
- An EOG-Based Human–Machine Interface for Wheelchair Control. *Huang, Q.*, +, *TBME Sept. 2018 2023-2032*
- Electrophysiology**
- An Optimization-Based Algorithm for the Construction of Cardiac Purkinje Network Models. *Ulysses, J.N.*, +, *TBME Dec. 2018 2760-2768*
- Embedded systems**
- A High-Resolution Minimicroscope System for Wireless Real-Time Monitoring. *Wang, Z.*, +, *TBME July 2018 1524-1531*
- Encoding**
- Heartbeats Based Biometric Random Binary Sequences Generation to Secure Wireless Body Sensor Networks. *Pirbhulal, S.*, +, *TBME Dec. 2018 2751-2759*
- Simulation of Constrained Musculoskeletal Systems in Task Space. *Stanev, D.*, +, *TBME Feb. 2018 307-318*
- Endoscopes**
- A Novel Telemanipulated Robotic Assistant for Surgical Endoscopy: Pre-clinical Application to ESD. *Zorn, L.*, +, *TBME April 2018 797-808*
- Analysis of Energy-Based Metrics for Laparoscopic Skills Assessment. *Poursartip, B.*, +, *TBME July 2018 1532-1542*
- Fabrication and Performance of a Miniaturized and Integrated Endoscope Ultrasound Convex Array for Digestive Tract Imaging. *Peng, J.*, +, *TBME Jan. 2018 140-148*
- Uncertainty-Aware Organ Classification for Surgical Data Science Applications in Laparoscopy. *Moccia, S.*, +, *TBME Nov. 2018 2649-2659*
- Energy harvesting**
- Endocardial Energy Harvesting by Electromagnetic Induction. *Zurbuchen, A.*, +, *TBME Feb. 2018 424-430*
- Entropy**
- Brain MR Image Restoration Using an Automatic Trilateral Filter With GPU-Based Acceleration. *Chang, H.*, +, *TBME Feb. 2018 400-413*
- Dedicated Entropy Measures for Early Assessment of Pregnancy Progression From Single-Channel Electrohysterography. *Mischi, M.*, +, *TBME April 2018 875-884*
- Electrophysiological Muscle Classification Using Multiple Instance Learning and Unsupervised Time and Spectral Domain Analysis. *Kamali, T.*, +, *TBME Nov. 2018 2494-2502*
- Instantaneous Transfer Entropy for the Study of Cardiovascular and Cardiorespiratory Nonstationary Dynamics. *Valenza, G.*, +, *TBME May 2018 1077-1085*
- Novel Quantitative Analytical Approaches for Rotor Identification and Associated Implications for Mapping. *Annoni, E.M.*, +, *TBME Feb. 2018 273-281*
- Time-Varying Time–Frequency Complexity Measures for Epileptic EEG Data Analysis. *Colominas, M.A.*, +, *TBME Aug. 2018 1681-1688*
- Understanding Irregularity Characteristics of Short-Term HRV Signals Using Sample Entropy Profile. *Udhayakumar, R.K.*, +, *TBME Nov. 2018 2569-2579*
- Enzymes**
- Molecularly Imprinted Polymer-Based Electrochemical Biosensor for Bone Loss Detection. *Afsarimanesh, N.*, +, *TBME June 2018 1264-1271*
- Epilepsy**
- EEG Spectral Coherence Analysis in Nocturnal Epilepsy. *Busonera, G.*, +, *TBME Dec. 2018 2713-2719*
- EPR imaging**
- A 750-MHz Electronically Tunable Resonator Using Microstrip Line Couplers for Electron Paramagnetic Resonance Imaging of a Mouse Tumor-Bearing Leg. *Amida, T.*, +, *TBME May 2018 1124-1132*
- Equivalent circuits**
- Enhancement of Intercellular Electrical Synchronization by Conductive Materials in Cardiac Tissue Engineering. *Wu, Y.*, +, *TBME Feb. 2018 264-272*
- Ergonomics**
- An Interactive Simulator for Imposing Virtual Musculoskeletal Dynamics. *Hasson, C.J.*, *TBME March 2018 539-549*
- Error analysis**
- Depth-Based Whole Body Photoplethysmography in Remote Pulmonary Function Testing. *Soleimani, V.*, +, *TBME June 2018 1421-1431*
- Estimation theory**
- A Robust Fusion Model for Estimating Respiratory Rate From Photoplethysmography and Electrocardiography. *Birrenkott, D.A.*, +, *TBME Sept. 2018 2033-2041*
- Aortic Pressure Estimation Using Blind Identification Approach on Single Input Multiple Output Nonlinear Wiener Systems. *Patel, A.M.*, +, *TBME June 2018 1193-1200*
- Developing a Nonstationary Computational Framework With Application to Modeling Dynamic Modulations in Neural Spiking Responses. *Akbarian, A.*, +, *TBME Feb. 2018 241-253*
- Estimating Brain Connectivity With Varying-Length Time Lags Using a Recurrent Neural Network. *Wang, Y.*, +, *TBME Sept. 2018 1953-1963*
- Noninvasive Blood Pressure Estimation Using Ultrasound and Simple Finite Element Models. *Zakrzewski, A.M.*, +, *TBME Sept. 2018 2011-2022*
- Evaporation**
- An In Vitro and Numerical Study of Moxibustion Therapy on Biological Tissue. *Li, Y.*, +, *TBME April 2018 779-788*
- Event detection**
- Inertial Sensing for Gait Event Detection and Transfemoral Prosthesis Control Strategy. *Ledoux, E.D.*, *TBME Dec. 2018 2704-2712*

Evolutionary computation

Automatic Detection of Retinal Lesions for Screening of Diabetic Retinopathy. *Kar, S.S.*, +, *TBME March 2018 608-618*

Expectation-maximization algorithms

Computationally Efficient Algorithms for Sparse, Dynamic Solutions to the EEG Source Localization Problem. *Pirondini, E.*, +, *TBME June 2018 1359-1372*

Fast and Stable Signal Deconvolution via Compressible State-Space Models. *Kazemipour, A.*, +, *TBME Jan. 2018 74-86*

Joint Magnetic Calibration and Localization Based on Expectation Maximization for Tongue Tracking. *Lu, J.*, +, *TBME Jan. 2018 52-63*

Eyes

An Automated System for the Detection and Classification of Retinal Changes Due to Red Lesions in Longitudinal Fundus Images. *Adal, K.M.*, +, *TBME June 2018 1382-1390*

Automatic Detection of Retinal Lesions for Screening of Diabetic Retinopathy. *Kar, S.S.*, +, *TBME March 2018 608-618*

Automatic Subretinal Fluid Segmentation of Retinal SD-OCT Images With Neurosensory Retinal Detachment Guided by Enface Fundus Imaging. *Wu, M.*, +, *TBME Jan. 2018 87-95*

Color Retinal Image Enhancement Based on Luminosity and Contrast Adjustment. *Zhou, M.*, +, *TBME March 2018 521-527*

Developing a Nonstationary Computational Framework With Application to Modeling Dynamic Modulations in Neural Spiking Responses. *Akbarian, A.*, +, *TBME Feb. 2018 241-253*

Fully Automated Segmentation of Fluid/Cyst Regions in Optical Coherence Tomography Images With Diabetic Macular Edema Using Neutrosophic Sets and Graph Algorithms. *Rashno, A.*, +, *TBME May 2018 989-1001*

Joint Segment-Level and Pixel-Wise Losses for Deep Learning Based Retinal Vessel Segmentation. *Yan, Z.*, +, *TBME Sept. 2018 1912-1923*

Orbit Segmentation by Surface Reconstruction With Automatic Sliced Vertex Screening. *Hsung, T.*, +, *TBME April 2018 828-838*

Three-Dimensional Segmentation of the *Ex-Vivo* Anterior Lamina Cribrosa From Second-Harmonic Imaging Microscopy. *Ram, S.*, +, *TBME July 2018 1617-1629*

F**Fabry-Perot interferometers**

Broadband Vibration Detection in Tissue Phantoms Using a Fiber Fabry-Perot Cavity. *Barnes, J.*, +, *TBME April 2018 921-927*

Fast Fourier transforms

Automated Detection of Postictal Generalized EEG Suppression. *Theeranaew, W.*, +, *TBME Feb. 2018 371-377*

Feature extraction

A Cascaded Deep Convolutional Neural Network for Joint Segmentation and Genotype Prediction of Brainstem Gliomas. *Liu, J.*, +, *TBME Sept. 2018 1943-1952*

A Hybrid Image Registration and Matching Framework for Real-Time Motion Tracking in MRI-Guided Radiotherapy. *Seregni, M.*, +, *TBME Jan. 2018 131-139*

A Machine Learning Approach to Automated Gait Analysis for the Noldus Catwalk System. *Frohlich, H.*, +, *TBME May 2018 1133-1139*

A Radiomics Approach With CNN for Shear-Wave Elastography Breast Tumor Classification. *Zhou, Y.*, +, *TBME Sept. 2018 1935-1942*

A Regularized Deep Learning Approach for Clinical Risk Prediction of Acute Coronary Syndrome Using Electronic Health Records. *Huang, Z.*, +, *TBME May 2018 956-968*

Acoustical Emission Analysis by Unsupervised Graph Mining: A Novel Biomarker of Knee Health Status. *Hersek, S.*, +, *TBME June 2018 1291-1300*

Adaptive Sparse Multiple Canonical Correlation Analysis With Application to Imaging (Epi)Genomics Study of Schizophrenia. *Hu, W.*, +, *TBME Feb. 2018 390-399*

An Automated System for the Detection and Classification of Retinal Changes Due to Red Lesions in Longitudinal Fundus Images. *Adal, K.M.*, +, *TBME June 2018 1382-1390*

Asynchronous Brain-Computer Interfacing Based on Mixed-Coded Visual Stimuli. *Suefusa, K.*, +, *TBME Sept. 2018 2119-2129*

Automated Detection of Postictal Generalized EEG Suppression. *Theeranaew, W.*, +, *TBME Feb. 2018 371-377*

Automatic Detection of Retinal Lesions for Screening of Diabetic Retinopathy. *Kar, S.S.*, +, *TBME March 2018 608-618*

Automatic Early-Onset Free Flap Failure Detection for Implantable Biomedical Devices. *Rothfuss, M.A.*, +, *TBME Oct. 2018 2290-2297*

Detecting Vascular Age Using the Analysis of Peripheral Pulse. *Sorelli, M.*, +, *TBME Dec. 2018 2742-2750*

EEG-Based Affect and Workload Recognition in a Virtual Driving Environment for ASD Intervention. *Fan, J.*, +, *TBME Jan. 2018 43-51*

Electrocardiogram Signal Quality Assessment Based on Structural Image Similarity Metric. *Shahriari, Y.*, +, *TBME April 2018 745-753*

Electroencephalogram Based Detection of Deep Sedation in ICU Patients Using Atomic Decomposition. *Nagaraj, S.B.*, +, *TBME Dec. 2018 2684-2691*

Electrophysiological Muscle Classification Using Multiple Instance Learning and Unsupervised Time and Spectral Domain Analysis. *Kamali, T.*, +, *TBME Nov. 2018 2494-2502*

Evaluation of an Integrated System of Wearable Physiological Sensors for Stress Monitoring in Working Environments by Using Biological Markers. *Betti, S.*, +, *TBME Aug. 2018 1748-1758*

Feature-Based Representation Improves Color Decomposition and Nuclear Detection Using a Convolutional Neural Network. *Khoshdeli, M.*, +, *TBME March 2018 625-634*

Focal Onset Seizure Prediction Using Convolutional Networks. *Khan, H.*, +, *TBME Sept. 2018 2109-2118*

Identification of Ultrasonic Echo-lucent Carotid Plaques Using Discrete Fréchet Distance Between Bimodal Gamma Distributions. *Huang, X.*, +, *TBME May 2018 949-955*

Joint Segment-Level and Pixel-Wise Losses for Deep Learning Based Retinal Vessel Segmentation. *Yan, Z.*, +, *TBME Sept. 2018 1912-1923*

Low Rank Enhanced Matrix Recovery of Hybrid Time and Frequency Data in Fast Magnetic Resonance Spectroscopy. *Lu, H.*, +, *TBME April 2018 809-820*

Low-to-High Cross-Frequency Coupling in the Electrical Rhythms as Biomarker for Hyperexcitable Neuroglial Networks of the Brain. *Grigorenko, V.*, +, *TBME July 2018 1504-1515*

Methods for Improved Discrimination Between Ventricular Fibrillation and Tachycardia. *Alwan, Y.*, +, *TBME Oct. 2018 2143-2151*

Multiclass Classification of Word Imagination Speech With Hybrid Connectivity Features. *Qureshi, M.N.I.*, +, *TBME Oct. 2018 2168-2177*

ResCSRF: Algorithm to Automatically Extract Cheyne-Stokes Respiration Features From Respiratory Signals. *Javed, F.*, +, *TBME March 2018 669-677*

Spatial Evidential Clustering With Adaptive Distance Metric for Tumor Segmentation in FDG-PET Images. *Lian, C.*, +, *TBME Jan. 2018 21-30*

Time-Varying Time-Frequency Complexity Measures for Epileptic EEG Data Analysis. *Colominas, M.A.*, +, *TBME Aug. 2018 1681-1688*

Uncertainty-Aware Organ Classification for Surgical Data Science Applications in Laparoscopy. *Moccia, S.*, +, *TBME Nov. 2018 2649-2659*

User-Independent Intent Recognition for Lower Limb Protheses Using Depth Sensing. *Massalin, Y.*, +, *TBME Aug. 2018 1759-1770*

Using Machine Learning and a Combination of Respiratory Flow, Laryngeal Motion, and Swallowing Sounds to Classify Safe and Unsafe Swallowing. *Inoue, K.*, +, *TBME Nov. 2018 2529-2541*

Feature selection

Adaptive Sparse Multiple Canonical Correlation Analysis With Application to Imaging (Epi)Genomics Study of Schizophrenia. *Hu, W.*, +, *TBME Feb. 2018 390-399*

Brain MR Image Restoration Using an Automatic Trilateral Filter With GPU-Based Acceleration. *Chang, H.*, +, *TBME Feb. 2018 400-413*

Robust Methods for Automated Selection of Cardiac Signals After Blind Source Separation. *Wedekind, D.*, +, *TBME Oct. 2018 2248-2258*

Feedback

A Comparison of Intention Estimation Methods for Decoder Calibration in Intracortical Brain-Computer Interfaces. *Willett, F.R.*, +, *TBME Sept. 2018 2066-2078*

Extremum Seeking Control for Personalized Zone Adaptation in Model Predictive Control for Type 1 Diabetes. *Cao, Z.*, +, *TBME Aug. 2018 1859-1870*

Visual Limit-Push Training Alters Movement Variability. *Hajissa, E.*, +, *TBME Oct. 2018 2162-2167*

Feedforward neural networks

A Radiomics Approach With CNN for Shear-Wave Elastography Breast Tumor Classification. *Zhou, Y.*, +, *TBME Sept. 2018 1935-1942*

Localization of Origins of Premature Ventricular Contraction by Means of Convolutional Neural Network From 12-Lead ECG. *Yang, T.*, +, *TBME July 2018 1662-1671*

Multi-Views Fusion CNN for Left Ventricular Volumes Estimation on Cardiac MR Images. *Luo, G.*, +, *TBME Sept. 2018 1924-1934*

Fiber optic sensors

- A Fiber Bragg Grating Sensor for Radial Artery Pulse Waveform Measurement. *Jia, D.*, +, *TBME April 2018 839-846*
- Broadband Vibration Detection in Tissue Phantoms Using a Fiber Fabry-Perot Cavity. *Barnes, J.*, +, *TBME April 2018 921-927*

Filtering theory

- A Novel Short-Term Event Extraction Algorithm for Biomedical Signals. *Yazdani, S.*, +, *TBME April 2018 754-762*
- Aortic Pressure Estimation Using Blind Identification Approach on Single Input Multiple Output Nonlinear Wiener Systems. *Patel, A.M.*, +, *TBME June 2018 1193-1200*
- Automated Detection of Postictal Generalized EEG Suppression. *Theeranaew, W.*, +, *TBME Feb. 2018 371-377*
- Modeling, Detecting, and Tracking Freezing of Gait in Parkinson Disease Using Inertial Sensors. *Prateek, G.V.*, +, *TBME Oct. 2018 2152-2161*

Fingers

- Real-Time Visualization and Analysis of Clinicians' Performance During Palpation in Physical Examinations. *Granados, A.*, +, *TBME Sept. 2018 2042-2051*

Finite difference methods

- Reconnection of Interrupted Curvilinear Structures via Cortically Inspired Completion for Ophthalmologic Images. *Zhang, J.*, +, *TBME May 2018 1151-1165*

Finite difference time-domain analysis

- Real-Time Three-Dimensional Microwave Monitoring of Interstitial Thermal Therapy. *Chen, G.*, +, *TBME March 2018 528-538*

Finite element analysis

- A 750-MHz Electronically Tunable Resonator Using Microstrip Line Couplers for Electron Paramagnetic Resonance Imaging of a Mouse Tumor-Bearing Leg. *Amida, T.*, +, *TBME May 2018 1124-1132*
- A Quasi-Static Boundary Element Approach With Fast Multipole Acceleration for High-Resolution Bioelectromagnetic Models. *Makarov, S.N.*, +, *TBME Dec. 2018 2675-2683*
- Automated *In Vivo* Sub-Hertz Analysis of Viscoelasticity (SAVE) for Evaluation of Breast Lesions. *Bayat, M.*, +, *TBME Oct. 2018 2237-2247*
- Characterization of Conductivity Changes During High-Frequency Irreversible Electroporation for Treatment Planning. *Zhao, Y.*, +, *TBME Aug. 2018 1810-1819*
- Effect of Tissue Heterogeneity on the Transmembrane Potential of Type-1 Spiral Ganglion Neurons: A Simulation Study. *Sriperumbudur, K.K.*, +, *TBME March 2018 658-668*

Electrothermal Equivalent Three-Dimensional Finite-Element Model of a Single Neuron. *Cinelli, I.*, +, *TBME June 2018 1373-1381*

Numerical Model Reduction for the Prediction of Interface Pressure Applied by Compression Bandages on the Lower Leg. *Chassagne, F.*, +, *TBME Feb. 2018 449-457*

PMN-PT Single Crystal Ultrasonic Transducer With Half-Concave Geometric Design for IVUS Imaging. *Fei, C.*, +, *TBME Sept. 2018 2087-2092*

Real-Time Error Control for Surgical Simulation. *Bui, H.P.*, +, *TBME March 2018 596-607*

Real-Time Three-Dimensional Microwave Monitoring of Interstitial Thermal Therapy. *Chen, G.*, +, *TBME March 2018 528-538*

Skull Modeling Effects in Conductivity Estimates Using Parametric Electrical Impedance Tomography. *Fernandez-Corazza, M.*, +, *TBME Aug. 2018 1785-1797*

Flexible manipulators

- Visual Servoed Three-Dimensional Rotation Control in Zebrafish Larva Heart Microinjection System. *Zhuang, S.*, +, *TBME Jan. 2018 64-73*

Fluctuations

- Real-Time Automatic Apneic Event Detection Using Nocturnal Pulse Oximetry. *Jung, D.W.*, +, *TBME March 2018 706-712*
- Sockets for Limb Prostheses: A Review of Existing Technologies and Open Challenges. *Paterno, L.*, +, *TBME Sept. 2018 1996-2010*

Fluid oscillations

- Time-Dependent Behavior of Microvascular Blood Flow and Oxygenation: A Predictor of Functional Outcomes. *Kuliga, K.Z.*, +, *TBME May 2018 1049-1056*

Fluorescence

- In Vivo* Superresolution Imaging of Neuronal Structure in the Mouse Brain. *Urban, B.E.*, +, *TBME Jan. 2018 232-238*
- Feature-Based Representation Improves Color Decomposition and Nuclear Detection Using a Convolutional Neural Network. *Khoshdeli, M.*, +, *TBME March 2018 625-634*
- Information-Theoretic Approach and Fundamental Limits of Resolving Two Closely Timed Neuronal Spikes in Mouse Brain Calcium Imaging. *Soltanian-Zadeh, S.*, +, *TBME Nov. 2018 2428-2439*

Pathogen Detection Using Frequency Domain Fluorescent Lifetime Measurements. *Yahav, G.*, +, *TBME Dec. 2018 2731-2741*

WaveDec: A Wavelet Approach to Identify Both Shared and Individual Patterns of Copy-Number Variations. *Cai, H.*, +, *TBME Feb. 2018 353-364*

Force control

- Optimal Mixed Tracking/Impedance Control With Application to Transfemoral Prostheses With Energy Regeneration. *Khademi, G.*, +, *TBME April 2018 894-910*

Force feedback

- Design and Development of Surgeon Augmented Endovascular Robotic System. *Sankaran, N.K.*, +, *TBME Nov. 2018 2483-2493*

Force sensors

- GrIFT: A Device for Quantifying Physiological and Pathological Mirror Movements in Children. *Jaspers, E.*, +, *TBME April 2018 857-865*
- Modeling Touch and Palpation Using Autoregressive Models. *Lauffer, S.*, +, *TBME July 2018 1585-1594*

Frequency measurement

- EEG Spectral Coherence Analysis in Nocturnal Epilepsy. *Busonera, G.*, +, *TBME Dec. 2018 2713-2719*

Frequency modulation

- A Robust Fusion Model for Estimating Respiratory Rate From Photoplethysmography and Electrocardiography. *Birrenkott, D.A.*, +, *TBME Sept. 2018 2033-2041*

Pathogen Detection Using Frequency Domain Fluorescent Lifetime Measurements. *Yahav, G.*, +, *TBME Dec. 2018 2731-2741*

Frequency-domain analysis

- Automated Detection of Postictal Generalized EEG Suppression. *Theeranaew, W.*, +, *TBME Feb. 2018 371-377*

Frontal lobe

- EEG Spectral Coherence Analysis in Nocturnal Epilepsy. *Busonera, G.*, +, *TBME Dec. 2018 2713-2719*

Fuzzy set theory

- A Novel Approach for Real-Time Recognition of Epileptic Seizures Using Minimum Variance Modified Fuzzy Entropy. *Raghu, S.*, +, *TBME Nov. 2018 2612-2621*

G**Gait analysis**

A Machine Learning Approach to Automated Gait Analysis for the Noldus Catwalk System. *Frohlich, H.*, +, *TBME May 2018 1133-1139*

A Novel Accelerometer-Based Technique for Robust Detection of Walking Direction. *Shaikh, M.F.*, +, *TBME Aug. 2018 1740-1747*

A Phase Variable Approach for IMU-Based Locomotion Activity Recognition. *Bartlett, H.L.*, +, *TBME June 2018 1330-1338*

An Ambulatory Gait Monitoring System with Activity Classification and Gait Parameter Calculation Based on a Single Foot Inertial Sensor. *Song, M.*, +, *TBME April 2018 885-893*

GrIFT: A Device for Quantifying Physiological and Pathological Mirror Movements in Children. *Jaspers, E.*, +, *TBME April 2018 857-865*

Metabolic Effects Induced by a Kinetically Compatible Hip Exoskeleton During STS. *Junius, K.*, +, *TBME June 2018 1399-1409*

Modeling, Detecting, and Tracking Freezing of Gait in Parkinson Disease Using Inertial Sensors. *Prateek, G.V.*, +, *TBME Oct. 2018 2152-2161*

Optimal Mixed Tracking/Impedance Control With Application to Transfemoral Prostheses With Energy Regeneration. *Khademi, G.*, +, *TBME April 2018 894-910*

Simulation of Constrained Musculoskeletal Systems in Task Space. *Stanev, D.*, +, *TBME Feb. 2018 307-318*

Tensor Decomposition of Gait Dynamics in Parkinson's Disease. *Pham, T.D.*, +, *TBME Aug. 2018 1820-1827*

Translational Motion Tracking of Leg Joints for Enhanced Prediction of Walking Tasks. *Stolyarov, R.*, +, *TBME April 2018 763-769*

Turn Intent Detection For Control of a Lower Limb Prosthesis. *Pew, C.*, +, *TBME April 2018 789-796*

User-Independent Intent Recognition for Lower Limb Prostheses Using Depth Sensing. *Massalin, Y.*, +, *TBME Aug. 2018 1759-1770*

Gait recognition

- Inertial Sensing for Gait Event Detection and Transfemoral Prosthesis Control Strategy. *Ledoux, E.D.*, *TBME Dec. 2018 2704-2712*

Gamma distribution

- Identification of Ultrasonic Echolucent Carotid Plaques Using Discrete Fréchet Distance Between Bimodal Gamma Distributions. *Huang, X.*, +, *TBME May 2018 949-955*

Gastrointestinal tract

A Smart Capsule With a Hydrogel-Based pH-Triggered Release Switch for GI-Tract Site-Specific Drug Delivery. *Jiang, H.*, +, *TBME Dec. 2018 2808-2813*

Gaussian distribution

Transfer Learning: A Riemannian Geometry Framework With Applications to Brain–Computer Interfaces. *Zanini, P.*, +, *TBME May 2018 1107-1116*

Gaussian processes

Detecting Vascular Age Using the Analysis of Peripheral Pulse. *Sorelli, M.*, +, *TBME Dec. 2018 2742-2750*

Feature-Based Representation Improves Color Decomposition and Nuclear Detection Using a Convolutional Neural Network. *Khoshdeli, M.*, +, *TBME March 2018 625-634*

Personalized Risk Scoring for Critical Care Prognosis Using Mixtures of Gaussian Processes. *Alaa, A.M.*, +, *TBME Jan. 2018 207-218*

Viscosity Prediction in a Physiologically Controlled Ventricular Assist Device. *Petrou, A.*, +, *TBME Oct. 2018 2355-2364*

Gelatin

Noninvasive Assessment of Jugular Venous Pressure via Force-Coupled Single Crystal Ultrasound. *Singh, R.*, +, *TBME Aug. 2018 1705-1710*

Generators

Medical Image Synthesis with Deep Convolutional Adversarial Networks. *Nie, D.*, +, *TBME Dec. 2018 2720-2730*

Genetic algorithms

A Functional-Genetic Scheme for Seizure Forecasting in Canine Epilepsy. *Bou Assi, E.*, +, *TBME June 2018 1339-1348*

Genomics

Adaptive Sparse Multiple Canonical Correlation Analysis With Application to Imaging (Epi)Genomics Study of Schizophrenia. *Hu, W.*, +, *TBME Feb. 2018 390-399*

WaveDec: A Wavelet Approach to Identify Both Shared and Individual Patterns of Copy-Number Variations. *Cai, H.*, +, *TBME Feb. 2018 353-364*

Geometry

Orbit Segmentation by Surface Reconstruction With Automatic Sliced Vertex Screening. *Hsung, T.*, +, *TBME April 2018 828-838*

Transfer Learning: A Riemannian Geometry Framework With Applications to Brain–Computer Interfaces. *Zanini, P.*, +, *TBME May 2018 1107-1116*

Gold

Visible Illumination Enhanced Nonenzymatic Glucose Photobiosensor Based on TiO₂ Nanorods Decorated With Au Nanoparticles. *Wang, S.*, +, *TBME Sept. 2018 2052-2057*

Graph theory

Acoustical Emission Analysis by Unsupervised Graph Mining: A Novel Biomarker of Knee Health Status. *Hersek, S.*, +, *TBME June 2018 1291-1300*

Fully Automated Segmentation of Fluid/Cyst Regions in Optical Coherence Tomography Images With Diabetic Macular Edema Using Neutrosophic Sets and Graph Algorithms. *Rashno, A.*, +, *TBME May 2018 989-1001*

Graphical user interfaces

A Novel Approach for Real-Time Recognition of Epileptic Seizures Using Minimum Variance Modified Fuzzy Entropy. *Raghu, S.*, +, *TBME Nov. 2018 2612-2621*

An EOG-Based Human–Machine Interface for Wheelchair Control. *Huang, Q.*, +, *TBME Sept. 2018 2023-2032*

Graphics processing units

Brain MR Image Restoration Using an Automatic Trilateral Filter With GPU-Based Acceleration. *Chang, H.*, +, *TBME Feb. 2018 400-413*

Real-Time Three-Dimensional Microwave Monitoring of Interstitial Thermal Therapy. *Chen, G.*, +, *TBME March 2018 528-538*

Green's function methods

A Time-Reversal Imaging System for Breast Screening: Theory and Initial Phantom Results. *Yousefina, M.*, +, *TBME Nov. 2018 2542-2551*

Gynecology

Dedicated Entropy Measures for Early Assessment of Pregnancy Progression From Single-Channel Electrohysterography. *Mischi, M.*, +, *TBME April 2018 875-884*

Spatial Evidential Clustering With Adaptive Distance Metric for Tumor Segmentation in FDG-PET Images. *Lian, C.*, +, *TBME Jan. 2018 21-30*

Gyroscopes

Muscle Activation and Inertial Motion Data for Noninvasive Classification of Activities of Daily Living. *Totty, M.S.*, +, *TBME May 2018 1069-1076*

H**Handicapped aids**

EEG-Based Affect and Workload Recognition in a Virtual Driving Environment for ASD Intervention. *Fan, J.*, +, *TBME Jan. 2018 43-51*

Hankel matrices

Low Rank Enhanced Matrix Recovery of Hybrid Time and Frequency Data in Fast Magnetic Resonance Spectroscopy. *Lu, H.*, +, *TBME April 2018 809-820*

Haptic interfaces

Modeling Touch and Palpation Using Autoregressive Models. *Laufer, S.*, +, *TBME July 2018 1585-1594*

Procedure-Specific Validation of Artificial Vertebrae. *Hollensteiner, M.*, +, *TBME Aug. 2018 1852-1858*

Health care

A Regularized Deep Learning Approach for Clinical Risk Prediction of Acute Coronary Syndrome Using Electronic Health Records. *Huang, Z.*, +, *TBME May 2018 956-968*

Interoperable End-to-End Remote Patient Monitoring Platform Based on IEEE 11073 PHD and ZigBee Health Care Profile. *Clarke, M.*, +, *TBME May 2018 1014-1025*

Personalized Risk Scoring for Critical Care Prognosis Using Mixtures of Gaussian Processes. *Alaa, A.M.*, +, *TBME Jan. 2018 207-218*

Robust Real-Time Musculoskeletal Modeling Driven by Electromyograms. *Durandau, G.*, +, *TBME March 2018 556-564*

Hearing

In-Ear Audio Wearable: Measurement of Heart and Breathing Rates for Health and Safety Monitoring. *Martin, A.*, +, *TBME June 2018 1256-1263*

Micromagnetic Stimulation of the Mouse Auditory Cortex *In Vivo* Using an Implantable Solenoid System. *Minusa, S.*, +, *TBME June 2018 1301-1310*

Hearing aids

Ear-EEG-Based Objective Hearing Threshold Estimation Evaluated on Normal Hearing Subjects. *Christensen, C.B.*, +, *TBME May 2018 1026-1034*

Magnetomotive Displacement of the Tympanic Membrane Using Magnetic Nanoparticles: Toward Enhancement of Sound Perception. *Huang, P.*, +, *TBME Dec. 2018 2837-2846*

Heart

An Optimization-Based Algorithm for the Construction of Cardiac Purkinje Network Models. *Ulysses, J.N.*, +, *TBME Dec. 2018 2760-2768*

Cardiac Motion Evolution Model for Analysis of Functional Changes Using Tensor Decomposition and Cross-Sectional Data. *McLeod, K.*, +, *TBME Dec. 2018 2769-2780*

RF Channel Modeling for Implant-to-Implant Communication and Implant to Subcutaneous Implant Communication for Future Leadless Cardiac Pacemakers. *Bose, P.*, +, *TBME Dec. 2018 2798-2807*

Heart beat

Heartbeats Based Biometric Random Binary Sequences Generation to Secure Wireless Body Sensor Networks. *Pirbhulal, S.*, +, *TBME Dec. 2018 2751-2759*

Heat conduction

Electrothermal Equivalent Three-Dimensional Finite-Element Model of a Single Neuron. *Cinelli, I.*, +, *TBME June 2018 1373-1381*

Heat transfer

An *In Vitro* and Numerical Study of Moxibustion Therapy on Biological Tissue. *Li, Y.*, +, *TBME April 2018 779-788*

Hemodynamics

A Lumped Parameter Model to Study Atrioventricular Valve Regurgitation in Stage 1 and Changes Across Stage 2 Surgery in Single Ventricle Patients. *Pant, S.*, +, *TBME Nov. 2018 2450-2458*

A Methodology for Non-Invasive 3-D Surveillance of Arteriovenous Fistulae Using Freehand Ultrasound. *Colley, E.*, +, *TBME Aug. 2018 1885-1891*

A Model for Estimating the Blood Flow of the POLVAD Pulsatile Ventricular Assist Device. *Siewnicka, A.*, +, *TBME Nov. 2018 2552-2559*

Aortic Pressure Estimation Using Blind Identification Approach on Single Input Multiple Output Nonlinear Wiener Systems. *Patel, A.M.*, +, *TBME June 2018 1193-1200*

Closed-Loop Lumped Parameter Modeling of Hemodynamics During Cirrhogenesis in Rats. *Audebert, C.*, +, *TBME Oct. 2018 2311-2322*

Hypoperfusion Induced by Preconditioning Treadmill Training in Hyper-Early Reperfusion After Cerebral Ischemia: A Laser Speckle Imaging Study. *He, Z.*, +, *TBME Jan. 2018 219-223*

Monitoring Acute Stroke in Mouse Model Using Laser Speckle Imaging-Guided Visible-Light Optical Coherence Tomography. *Liu, Q.*, +, *TBME Oct. 2018 2136-2142*

- Spatially Resolved MR-Compatible Doppler Ultrasound: Proof of Concept for Triggering of Diagnostic Quality Cardiovascular MRI for Function and Flow Quantification at 3T. *Crowe, L.A.*, +, *TBME Feb. 2018 294-306*
- Time-Dependent Behavior of Microvascular Blood Flow and Oxygenation: A Predictor of Functional Outcomes. *Kuliga, K.Z.*, +, *TBME May 2018 1049-1056*
- Unambiguous Identification and Visualization of an Acoustically Active Catheter by Ultrasound Imaging in Real Time: Theory, Algorithm, and Phantom Experiments. *Kumar, V.*, +, *TBME July 2018 1468-1475*
- Hemorheology**
- Automatic Early-Onset Free Flap Failure Detection for Implantable Biomedical Devices. *Rothfuss, M.A.*, +, *TBME Oct. 2018 2290-2297*
- Hypoperfusion Induced by Preconditioning Treadmill Training in Hyper-Early Reperfusion After Cerebral Ischemia: A Laser Speckle Imaging Study. *He, Z.*, +, *TBME Jan. 2018 219-223*
- Monitoring Acute Stroke in Mouse Model Using Laser Speckle Imaging-Guided Visible-Light Optical Coherence Tomography. *Liu, Q.*, +, *TBME Oct. 2018 2136-2142*
- Time-Dependent Behavior of Microvascular Blood Flow and Oxygenation: A Predictor of Functional Outcomes. *Kuliga, K.Z.*, +, *TBME May 2018 1049-1056*
- Hemorrhaging**
- Prediction of Hemorrhagic Transformation Severity in Acute Stroke From Source Perfusion MRI. *Yu, Y.*, +, *TBME Sept. 2018 2058-2065*
- Hidden Markov models**
- A State Space and Density Estimation Framework for Sleep Staging in Obstructive Sleep Apnea. *Kang, D.Y.*, +, *TBME June 2018 1201-1212*
- Stochastic Modeling of Temporal Enhanced Ultrasound: Impact of Temporal Properties on Prostate Cancer Characterization. *Nahlawi, L.*, +, *TBME Aug. 2018 1798-1809*
- Hilbert transforms**
- Magneto-acousto-electrical Measurement Based Electrical Conductivity Reconstruction for Tissues. *Zhou, Y.*, +, *TBME May 2018 1086-1094*
- Human computer interaction**
- EEG-Based Affect and Workload Recognition in a Virtual Driving Environment for ASD Intervention. *Fan, J.*, +, *TBME Jan. 2018 43-51*
- Human factors**
- Latency Management in Scribble-Based Interactive Segmentation of Medical Images. *Gueziri, H.*, +, *TBME May 2018 1140-1150*
- Hydraulic systems**
- Magnet-Assisted Hydraulic Bougienage for Correction of Long-Gap Esophageal Atresia. *Noh, M.*, +, *TBME Oct. 2018 2178-2189*
- Hyperthermia**
- Cellular Obstruction Clearance in Proximal Ventricular Catheters Using Low-Voltage Joule Heating. *Sane, A.*, +, *TBME Nov. 2018 2503-2511*
- Effects of Ablation (Radio Frequency, Cryo, Microwave) on Physiologic Properties of the Human Vastus Lateralis. *Singal, A.*, +, *TBME Oct. 2018 2202-2209*
- I**
- Identification**
- Aortic Pressure Estimation Using Blind Identification Approach on Single Input Multiple Output Nonlinear Wiener Systems. *Patel, A.M.*, +, *TBME June 2018 1193-1200*
- IEEE standards**
- Interoperable End-to-End Remote Patient Monitoring Platform Based on IEEE 11073 PHD and ZigBee Health Care Profile. *Clarke, M.*, +, *TBME May 2018 1014-1025*
- Image capture**
- A High-Resolution Minimicroscope System for Wireless Real-Time Monitoring. *Wang, Z.*, +, *TBME July 2018 1524-1531*
- Image classification**
- A Phase Variable Approach for IMU-Based Locomotion Activity Recognition. *Bartlett, H.L.*, +, *TBME June 2018 1330-1338*
- A Radiomics Approach With CNN for Shear-Wave Elastography Breast Tumor Classification. *Zhou, Y.*, +, *TBME Sept. 2018 1935-1942*
- An Automated System for the Detection and Classification of Retinal Changes Due to Red Lesions in Longitudinal Fundus Images. *Adal, K.M.*, +, *TBME June 2018 1382-1390*
- Brain MR Image Restoration Using an Automatic Trilateral Filter With GPU-Based Acceleration. *Chang, H.*, +, *TBME Feb. 2018 400-413*
- Electrocardiogram Signal Quality Assessment Based on Structural Image Similarity Metric. *Shahriari, Y.*, +, *TBME April 2018 745-753*
- Electrophysiological Muscle Classification Using Multiple Instance Learning and Unsupervised Time and Spectral Domain Analysis. *Kamali, T.*, +, *TBME Nov. 2018 2494-2502*
- Euler Elastica Regularized Logistic Regression for Whole-Brain Decoding of fMRI Data. *Zhang, C.*, +, *TBME July 2018 1639-1653*
- Highly Accurate Facial Nerve Segmentation Refinement From CBCT/CT Imaging Using a Super-Resolution Classification Approach. *Lu, P.*, +, *TBME Jan. 2018 178-188*
- Identification of Ultrasonic Echolucent Carotid Plaques Using Discrete Fréchet Distance Between Bimodal Gamma Distributions. *Huang, X.*, +, *TBME May 2018 949-955*
- Learning Based Segmentation of CT Brain Images: Application to Post-operative Hydrocephalic Scans. *Cherukuri, V.*, +, *TBME Aug. 2018 1871-1884*
- Representing Medical Images With Encoded Local Projections. *Tizhoosh, H.R.*, +, *TBME Oct. 2018 2267-2277*
- Uncertainty-Aware Organ Classification for Surgical Data Science Applications in Laparoscopy. *Moccia, S.*, +, *TBME Nov. 2018 2649-2659*
- User-Independent Intent Recognition for Lower Limb Prostheses Using Depth Sensing. *Massalin, Y.*, +, *TBME Aug. 2018 1759-1770*
- Image coding**
- Coded-Aperture Compressed Sensing X-Ray Luminescence Tomography. *Tzoumas, S.*, +, *TBME Aug. 2018 1892-1895*
- Euler Elastica Regularized Logistic Regression for Whole-Brain Decoding of fMRI Data. *Zhang, C.*, +, *TBME July 2018 1639-1653*
- Image color analysis**
- Color Retinal Image Enhancement Based on Luminosity and Contrast Adjustment. *Zhou, M.*, +, *TBME March 2018 521-527*
- Feature-Based Representation Improves Color Decomposition and Nuclear Detection Using a Convolutional Neural Network. *Khoshdeli, M.*, +, *TBME March 2018 625-634*
- Image denoising**
- An Efficient Integral-Based Method for Three-Dimensional MR-EPT and the Calculation of the RF-Coil-Induced B_2 Field. *Guo, L.*, +, *TBME Feb. 2018 282-293*
- Brain MR Image Restoration Using an Automatic Trilateral Filter With GPU-Based Acceleration. *Chang, H.*, +, *TBME Feb. 2018 400-413*
- In-Ear Audio Wearable: Measurement of Heart and Breathing Rates for Health and Safety Monitoring. *Martin, A.*, +, *TBME June 2018 1256-1263*
- Real-Time Three-Dimensional Microwave Monitoring of Interstitial Thermal Therapy. *Chen, G.*, +, *TBME March 2018 528-538*
- Three-Dimensional Segmentation of the *Ex-Vivo* Anterior Lamina Cribrosa From Second-Harmonic Imaging Microscopy. *Ram, S.*, +, *TBME July 2018 1617-1629*
- Image enhancement**
- A Cascaded Deep Convolutional Neural Network for Joint Segmentation and Genotype Prediction of Brainstem Gliomas. *Liu, J.*, +, *TBME Sept. 2018 1943-1952*
- Automatic Detection of Retinal Lesions for Screening of Diabetic Retinopathy. *Kar, S.S.*, +, *TBME March 2018 608-618*
- Automatic Temporal Segmentation of Vessels of the Brain Using 4D ASL MRA Images. *Phellan, R.*, +, *TBME July 2018 1486-1494*
- Color Retinal Image Enhancement Based on Luminosity and Contrast Adjustment. *Zhou, M.*, +, *TBME March 2018 521-527*
- Image filtering**
- Brain MR Image Restoration Using an Automatic Trilateral Filter With GPU-Based Acceleration. *Chang, H.*, +, *TBME Feb. 2018 400-413*
- Feature-Based Representation Improves Color Decomposition and Nuclear Detection Using a Convolutional Neural Network. *Khoshdeli, M.*, +, *TBME March 2018 625-634*
- Three-Dimensional Segmentation of the *Ex-Vivo* Anterior Lamina Cribrosa From Second-Harmonic Imaging Microscopy. *Ram, S.*, +, *TBME July 2018 1617-1629*
- Image fusion**
- Tensor Sparse Representation for 3-D Medical Image Fusion Using Weighted Average Rule. *Yin, H.*, *TBME Nov. 2018 2622-2633*
- Image generation**
- Medical Image Synthesis with Deep Convolutional Adversarial Networks. *Nie, D.*, +, *TBME Dec. 2018 2720-2730*
- Image matching**
- A Hybrid Image Registration and Matching Framework for Real-Time Motion Tracking in MRI-Guided Radiotherapy. *Seregni, M.*, +, *TBME Jan. 2018 131-139*

Image motion analysis

- A Hybrid Image Registration and Matching Framework for Real-Time Motion Tracking in MRI-Guided Radiotherapy. *Seregni, M.*, +, *TBME Jan. 2018 131-139*
- A Novel Accelerometer-Based Technique for Robust Detection of Walking Direction. *Shaikh, M.F.*, +, *TBME Aug. 2018 1740-1747*
- A Phase Variable Approach for IMU-Based Locomotion Activity Recognition. *Bartlett, H.L.*, +, *TBME June 2018 1330-1338*

Image reconstruction

- In Vivo* Superresolution Imaging of Neuronal Structure in the Mouse Brain. *Urban, B.E.*, +, *TBME Jan. 2018 232-238*
- Accelerated Cardiac Diffusion Tensor Imaging Using Joint Low-Rank and Sparsity Constraints. *Ma, S.*, +, *TBME Oct. 2018 2219-2230*
- Automatic Recognition of fMRI-Derived Functional Networks Using 3-D Convolutional Neural Networks. *Zhao, Y.*, +, *TBME Sept. 2018 1975-1984*
- Coded-Aperture Compressed Sensing X-Ray Luminescence Tomography. *Tzoumas, S.*, +, *TBME Aug. 2018 1892-1895*
- Conductivity Anisotropy Influence on Acoustic Sources for Magnetoacoustic Tomography With Magnetic Induction. *Yu, Z.*, +, *TBME Nov. 2018 2512-2518*
- Deep Residual Learning for Accelerated MRI Using Magnitude and Phase Networks. *Lee, D.*, +, *TBME Sept. 2018 1985-1995*
- Double-Stage Delay Multiply and Sum Beamforming Algorithm: Application to Linear-Array Photoacoustic Imaging. *Mozaffarzadeh, M.*, +, *TBME Jan. 2018 31-42*
- Generalized Adaptive Gaussian Markov Random Field for X-Ray Luminescence Computed Tomography. *Zhang, G.*, +, *TBME Sept. 2018 2130-2133*
- Highly Accurate Facial Nerve Segmentation Refinement From CBCT/CT Imaging Using a Super-Resolution Classification Approach. *Lu, P.*, +, *TBME Jan. 2018 178-188*
- Low Rank Enhanced Matrix Recovery of Hybrid Time and Frequency Data in Fast Magnetic Resonance Spectroscopy. *Lu, H.*, +, *TBME April 2018 809-820*
- Magneto-acousto-electrical Measurement Based Electrical Conductivity Reconstruction for Tissues. *Zhou, Y.*, +, *TBME May 2018 1086-1094*
- Optimization-Based Image Reconstruction From Low-Count, List-Mode TOF-PET Data. *Zhang, Z.*, +, *TBME April 2018 936-946*
- Orbit Segmentation by Surface Reconstruction With Automatic Sliced Vertex Screening. *Hsung, T.*, +, *TBME April 2018 828-838*
- Real-Time Three-Dimensional Microwave Monitoring of Interstitial Thermal Therapy. *Chen, G.*, +, *TBME March 2018 528-538*
- Sparse Ultrasound Image Reconstruction From a Shape-Sensing Single-Element Forward-Looking Catheter. *Janjic, J.*, +, *TBME Oct. 2018 2210-2218*

Spatial Position Measurement System for Surgical Navigation Using 3-D Image Marker-Based Tracking Tools With Compact Volume. *Fan, Z.*, +, *TBME Feb. 2018 378-389*

Temporal Dynamics Assessment of Spatial Overlap Pattern of Functional Brain Networks Reveals Novel Functional Architecture of Cerebral Cortex. *Jiang, X.*, +, *TBME June 2018 1183-1192*

Three-Dimensional Segmentation of the *Ex-Vivo* Anterior Lamina Cribrosa From Second-Harmonic Imaging Microscopy. *Ram, S.*, +, *TBME July 2018 1617-1629*

Three-Dimensional Weighting in Cone Beam FBP Reconstruction and Its Transformation Over Geometries. *Tang, S.*, +, *TBME June 2018 1235-1244*

Image registration

- A Hybrid Image Registration and Matching Framework for Real-Time Motion Tracking in MRI-Guided Radiotherapy. *Seregni, M.*, +, *TBME Jan. 2018 131-139*
- An Automated System for the Detection and Classification of Retinal Changes Due to Red Lesions in Longitudinal Fundus Images. *Adal, K.M.*, +, *TBME June 2018 1382-1390*
- Cardiac Motion Evolution Model for Analysis of Functional Changes Using Tensor Decomposition and Cross-Sectional Data. *McLeod, K.*, +, *TBME Dec. 2018 2769-2780*
- Deformable Image Registration Using a Cue-Aware Deep Regression Network. *Cao, X.*, +, *TBME Sept. 2018 1900-1911*
- Highly Accurate Facial Nerve Segmentation Refinement From CBCT/CT Imaging Using a Super-Resolution Classification Approach. *Lu, P.*, +, *TBME Jan. 2018 178-188*
- Multi-Imager Compatible, MR Safe, Remote Center of Motion Needle-Guide Robot. *Stoianovici, D.*, +, *TBME Jan. 2018 165-177*

Spatial Position Measurement System for Surgical Navigation Using 3-D Image Marker-Based Tracking Tools With Compact Volume. *Fan, Z.*, +, *TBME Feb. 2018 378-389*

Image representation

- Dual Temporal and Spatial Sparse Representation for Inferring Group-Wise Brain Networks From Resting-State fMRI Dataset. *Gong, J.*, +, *TBME May 2018 1035-1048*
- Representing Medical Images With Encoded Local Projections. *Tizhoosh, H.R.*, +, *TBME Oct. 2018 2267-2277*
- Temporal Dynamics Assessment of Spatial Overlap Pattern of Functional Brain Networks Reveals Novel Functional Architecture of Cerebral Cortex. *Jiang, X.*, +, *TBME June 2018 1183-1192*
- Tensor Sparse Representation for 3-D Medical Image Fusion Using Weighted Average Rule. *Yin, H.*, *TBME Nov. 2018 2622-2633*

Image resolution

- In Vivo* Superresolution Imaging of Neuronal Structure in the Mouse Brain. *Urban, B.E.*, +, *TBME Jan. 2018 232-238*
- A Centerline-Based Model Morphing Algorithm for Patient-Specific Finite Element Modeling of the Left Ventricle. *Behdadfar, S.*, +, *TBME June 2018 1391-1398*
- An Automated System for the Detection and Classification of Retinal Changes Due to Red Lesions in Longitudinal Fundus Images. *Adal, K.M.*, +, *TBME June 2018 1382-1390*
- Coded-Aperture Compressed Sensing X-Ray Luminescence Tomography. *Tzoumas, S.*, +, *TBME Aug. 2018 1892-1895*
- Double-Stage Delay Multiply and Sum Beamforming Algorithm: Application to Linear-Array Photoacoustic Imaging. *Mozaffarzadeh, M.*, +, *TBME Jan. 2018 31-42*
- Highly Accurate Facial Nerve Segmentation Refinement From CBCT/CT Imaging Using a Super-Resolution Classification Approach. *Lu, P.*, +, *TBME Jan. 2018 178-188*
- Magneto-acousto-electrical Measurement Based Electrical Conductivity Reconstruction for Tissues. *Zhou, Y.*, +, *TBME May 2018 1086-1094*
- Optimization-Based Image Reconstruction From Low-Count, List-Mode TOF-PET Data. *Zhang, Z.*, +, *TBME April 2018 936-946*
- Reconnection of Interrupted Curvilinear Structures via Cortically Inspired Completion for Ophthalmologic Images. *Zhang, J.*, +, *TBME May 2018 1151-1165*
- Super-Resolution Axial Localization of Ultrasound Scatter Using Multi-Focal Imaging. *Diamantis, K.*, +, *TBME Aug. 2018 1840-1851*
- Three-Dimensional Segmentation of the *Ex-Vivo* Anterior Lamina Cribrosa From Second-Harmonic Imaging Microscopy. *Ram, S.*, +, *TBME July 2018 1617-1629*
- Three-Dimensional Weighting in Cone Beam FBP Reconstruction and Its Transformation Over Geometries. *Tang, S.*, +, *TBME June 2018 1235-1244*

Image restoration

- Brain MR Image Restoration Using an Automatic Trilateral Filter With GPU-Based Acceleration. *Chang, H.*, +, *TBME Feb. 2018 400-413*
- Color Retinal Image Enhancement Based on Luminosity and Contrast Adjustment. *Zhou, M.*, +, *TBME March 2018 521-527*

Image sampling

- Deep Residual Learning for Accelerated MRI Using Magnitude and Phase Networks. *Lee, D.*, +, *TBME Sept. 2018 1985-1995*
- Representing Medical Images With Encoded Local Projections. *Tizhoosh, H.R.*, +, *TBME Oct. 2018 2267-2277*

Image segmentation

- A Cascaded Deep Convolutional Neural Network for Joint Segmentation and Genotype Prediction of Brainstem Gliomas. *Liu, J.*, +, *TBME Sept. 2018 1943-1952*
- A Methodology for Non-Invasive 3-D Surveillance of Arteriovenous Fistulae Using Freehand Ultrasound. *Colley, E.*, +, *TBME Aug. 2018 1885-1891*
- A Radiomics Approach With CNN for Shear-Wave Elastography Breast Tumor Classification. *Zhou, Y.*, +, *TBME Sept. 2018 1935-1942*
- An Automated System for the Detection and Classification of Retinal Changes Due to Red Lesions in Longitudinal Fundus Images. *Adal, K.M.*, +, *TBME June 2018 1382-1390*
- Automatic Detection of Retinal Lesions for Screening of Diabetic Retinopathy. *Kar, S.S.*, +, *TBME March 2018 608-618*
- Automatic Subretinal Fluid Segmentation of Retinal SD-OCT Images With Neurosensory Retinal Detachment Guided by Enface Fundus Imaging. *Wu, M.*, +, *TBME Jan. 2018 87-95*
- Automatic Temporal Segmentation of Vessels of the Brain Using 4D ASL MRA Images. *Phellan, R.*, +, *TBME July 2018 1486-1494*
- Deformable Image Registration Using a Cue-Aware Deep Regression Network. *Cao, X.*, +, *TBME Sept. 2018 1900-1911*

- Fully Automated Segmentation of Fluid/Cyst Regions in Optical Coherence Tomography Images With Diabetic Macular Edema Using Neutrosophic Sets and Graph Algorithms. *Rashno, A.*, +, *TBME May 2018 989-1001*
- Guest Editorial Special Issue on Deep Learning in Medical Imaging. *Shen, D.*, +, *TBME Sept. 2018 1898-1899*
- Highly Accurate Facial Nerve Segmentation Refinement From CBCT/CT Imaging Using a Super-Resolution Classification Approach. *Lu, P.*, +, *TBME Jan. 2018 178-188*
- Joint Segment-Level and Pixel-Wise Losses for Deep Learning Based Retinal Vessel Segmentation. *Yan, Z.*, +, *TBME Sept. 2018 1912-1923*
- Latency Management in Scribble-Based Interactive Segmentation of Medical Images. *Gueziri, H.*, +, *TBME May 2018 1140-1150*
- Learning Based Segmentation of CT Brain Images: Application to Postoperative Hydrocephalic Scans. *Cherukuri, V.*, +, *TBME Aug. 2018 1871-1884*
- Orbit Segmentation by Surface Reconstruction With Automatic Sliced Vertex Screening. *Hsung, T.*, +, *TBME April 2018 828-838*
- Reconnection of Interrupted Curvilinear Structures via Cortically Inspired Completion for Ophthalmologic Images. *Zhang, J.*, +, *TBME May 2018 1151-1165*
- Representing Medical Images With Encoded Local Projections. *Tizhoosh, H.R.*, +, *TBME Oct. 2018 2267-2277*
- Robust Multicontrast MRI Spleen Segmentation for Splenomegaly Using Multi-Atlas Segmentation. *Huo, Y.*, +, *TBME Feb. 2018 336-343*
- Spatial Evidential Clustering With Adaptive Distance Metric for Tumor Segmentation in FDG-PET Images. *Lian, C.*, +, *TBME Jan. 2018 21-30*
- Three-Dimensional Segmentation of the *Ex-Vivo* Anterior Lamina Cribrosa From Second-Harmonic Imaging Microscopy. *Ram, S.*, +, *TBME July 2018 1617-1629*
- Uncertainty-Aware Organ Classification for Surgical Data Science Applications in Laparoscopy. *Moccia, S.*, +, *TBME Nov. 2018 2649-2659*
- Image sensors**
- A High-Resolution Minimicroscope System for Wireless Real-Time Monitoring. *Wang, Z.*, +, *TBME July 2018 1524-1531*
- Image sequences**
- A Hybrid Image Registration and Matching Framework for Real-Time Motion Tracking in MRI-Guided Radiotherapy. *Seregni, M.*, +, *TBME Jan. 2018 131-139*
- Image texture**
- Brain MR Image Restoration Using an Automatic Trilateral Filter With GPU-Based Acceleration. *Chang, H.*, +, *TBME Feb. 2018 400-413*
- Spatial Evidential Clustering With Adaptive Distance Metric for Tumor Segmentation in FDG-PET Images. *Lian, C.*, +, *TBME Jan. 2018 21-30*
- Imaging**
- Generalized Adaptive Gaussian Markov Random Field for X-Ray Luminescence Computed Tomography. *Zhang, G.*, +, *TBME Sept. 2018 2130-2133*
- PMN-PT Single Crystal Ultrasonic Transducer With Half-Concave Geometric Design for IVUS Imaging. *Fei, C.*, +, *TBME Sept. 2018 2087-2092*
- Implants**
- RF Channel Modeling for Implant-to-Implant Communication and Implant to Subcutaneous Implant Communication for Future Leadless Cardiac Pacemakers. *Bose, P.*, +, *TBME Dec. 2018 2798-2807*
- Independent component analysis**
- A Novel Approach for Real-Time Recognition of Epileptic Seizures Using Minimum Variance Modified Fuzzy Entropy. *Raghu, S.*, +, *TBME Nov. 2018 2612-2621*
- Indexes**
- Real-Time Visualization and Analysis of Clinicians' Performance During Palpation in Physical Examinations. *Granados, A.*, +, *TBME Sept. 2018 2042-2051*
- Inductive power transmission**
- Near-Field Inductive-Coupling Link to Power a Three-Dimensional Millimeter-Size Antenna for Brain Implantable Medical Devices. *Manoufali, M.*, +, *TBME Jan. 2018 4-14*
- Inertial navigation**
- Modeling, Detecting, and Tracking Freezing of Gait in Parkinson Disease Using Inertial Sensors. *Prateek, G.V.*, +, *TBME Oct. 2018 2152-2161*
- Inference mechanisms**
- Spatial Evidential Clustering With Adaptive Distance Metric for Tumor Segmentation in FDG-PET Images. *Lian, C.*, +, *TBME Jan. 2018 21-30*
- Information retrieval**
- Understanding Irregularity Characteristics of Short-Term HRV Signals Using Sample Entropy Profile. *Udhayakumar, R.K.*, +, *TBME Nov. 2018 2569-2579*
- Injuries**
- Acoustical Emission Analysis by Unsupervised Graph Mining: A Novel Biomarker of Knee Health Status. *Hersek, S.*, +, *TBME June 2018 1291-1300*
- An Interactive Simulator for Imposing Virtual Musculoskeletal Dynamics. *Hasson, C.J.*, *TBME March 2018 539-549*
- Effects of Ablation (Radio Frequency, Cryo, Microwave) on Physiologic Properties of the Human Vastus Lateralis. *Singal, A.*, +, *TBME Oct. 2018 2202-2209*
- Feasibility of a Biomechanically-Assistive Garment to Reduce Low Back Loading During Leaning and Lifting. *Lamers, E.P.*, +, *TBME Aug. 2018 1674-1680*
- Novel Modeling of Somatosensory Evoked Potentials for the Assessment of Spinal Cord Injury. *Mir, H.*, +, *TBME March 2018 511-520*
- On the Feasibility of Automated Mechanical Ventilation Control Through EIT. *Tregidgo, H.F.J.*, +, *TBME Nov. 2018 2459-2470*
- Robust Nonlinear Causality Analysis of Nonstationary Multivariate Physiological Time Series. *Schack, T.*, +, *TBME June 2018 1213-1225*
- Insulin**
- Modeling Subcutaneous Absorption of Fast-Acting Insulin in Type 1 Diabetes. *Schiavon, M.*, +, *TBME Sept. 2018 2079-2086*
- Integral equations**
- A Quasi-Static Boundary Element Approach With Fast Multipole Acceleration for High-Resolution Bioelectromagnetic Models. *Makarov, S.N.*, +, *TBME Dec. 2018 2675-2683*
- Integrated circuits**
- Asynchronous Brain-Computer Interfacing Based on Mixed-Coded Visual Stimuli. *Suefusa, K.*, +, *TBME Sept. 2018 2119-2129*
- Sockets for Limb Prostheses: A Review of Existing Technologies and Open Challenges. *Paterno, L.*, +, *TBME Sept. 2018 1996-2010*
- Integration**
- Reconnection of Interrupted Curvilinear Structures via Cortically Inspired Completion for Ophthalmologic Images. *Zhang, J.*, +, *TBME May 2018 1151-1165*
- Robust Real-Time Musculoskeletal Modeling Driven by Electromyograms. *Durandau, G.*, +, *TBME March 2018 556-564*
- Simulation of Constrained Musculoskeletal Systems in Task Space. *Stanev, D.*, +, *TBME Feb. 2018 307-318*
- Intelligent robots**
- Design and Development of Surgeon Augmented Endovascular Robotic System. *Sankaran, N.K.*, +, *TBME Nov. 2018 2483-2493*
- Internal stresses**
- Real-Time Error Control for Surgical Simulation. *Bui, H.P.*, +, *TBME March 2018 596-607*
- Interpolation**
- Deep Residual Learning for Accelerated MRI Using Magnitude and Phase Networks. *Lee, D.*, +, *TBME Sept. 2018 1985-1995*
- Improved Visualization of Gastrointestinal Slow Wave Propagation Using a Novel Wavefront-Oriented Interpolation Technique. *Mayne, T.P.*, +, *TBME Feb. 2018 319-326*
- Orbit Segmentation by Surface Reconstruction With Automatic Sliced Vertex Screening. *Hsung, T.*, +, *TBME April 2018 828-838*
- Intestines**
- A Smart Capsule With a Hydrogel-Based pH-Triggered Release Switch for GI-Tract Site-Specific Drug Delivery. *Jiang, H.*, +, *TBME Dec. 2018 2808-2813*
- Inverse problems**
- An Efficient Integral-Based Method for Three-Dimensional MR-EPT and the Calculation of the RF-Coil-Induced B_z Field. *Guo, L.*, +, *TBME Feb. 2018 282-293*
- Computationally Efficient Algorithms for Sparse, Dynamic Solutions to the EEG Source Localization Problem. *Pirondini, E.*, +, *TBME June 2018 1359-1372*
- EEG for Current With Two-Dimensional Support. *Dassios, G.*, +, *TBME Sept. 2018 2101-2108*
- Identification of Ion Currents Components Generating Field Potential Recorded in MEA From hiPSC-CM. *Raphel, F.*, +, *TBME June 2018 1311-1319*
- Magneto-acousto-electrical Measurement Based Electrical Conductivity Reconstruction for Tissues. *Zhou, Y.*, +, *TBME May 2018 1086-1094*
- Simulation of Constrained Musculoskeletal Systems in Task Space. *Stanev, D.*, +, *TBME Feb. 2018 307-318*
- ISO standards**
- Interoperable End-to-End Remote Patient Monitoring Platform Based on IEEE 11073 PHD and ZigBee Health Care Profile. *Clarke, M.*, +, *TBME May 2018 1014-1025*

Iterative methods

- Real-Time Three-Dimensional Microwave Monitoring of Interstitial Thermal Therapy. *Chen, G.*, +, *TBME March 2018 528-538*
- Reconnection of Interrupted Curvilinear Structures via Cortically Inspired Completion for Ophthalmologic Images. *Zhang, J.*, +, *TBME May 2018 1151-1165*
- Robust Multicontrast MRI Spleen Segmentation for Splenomegaly Using Multi-Atlas Segmentation. *Huo, Y.*, +, *TBME Feb. 2018 336-343*

K**Kalman filters**

- A Comparison of Intention Estimation Methods for Decoder Calibration in Intracortical Brain-Computer Interfaces. *Willett, F.R.*, +, *TBME Sept. 2018 2066-2078*
- Joint Magnetic Calibration and Localization Based on Expectation Maximization for Tongue Tracking. *Lu, J.*, +, *TBME Jan. 2018 52-63*

Kidney

- Closed-Loop Control for Precision Antimicrobial Delivery: An *In Silico* Proof-of-Concept. *Herrero, P.*, +, *TBME Oct. 2018 2231-2236*
- Full Modeling of High-Intensity Focused Ultrasound and Thermal Heating in the Kidney Using Realistic Patient Models. *Suomi, V.*, +, *TBME May 2018 969-979*
- Full Modeling of High-Intensity Focused Ultrasound and Thermal Heating in the Kidney Using Realistic Patient Models. *Suomi, V.*, +, *TBME Nov. 2018 2660-2670*

Kinematics

- An Interactive Simulator for Imposing Virtual Musculoskeletal Dynamics. *Hasson, C.J.*, *TBME March 2018 539-549*
- Feasibility of a Biomechanically-Assistive Garment to Reduce Low Back Loading During Leaning and Lifting. *Lamers, E.P.*, +, *TBME Aug. 2018 1674-1680*
- Influence of Shoulder Kinematic Estimate on Joint and Muscle Mechanics Predicted by Musculoskeletal Model. *Blache, Y.*, +, *TBME April 2018 715-722*
- Metabolic Effects Induced by a Kinematically Compatible Hip Exoskeleton During STS. *Junius, K.*, +, *TBME June 2018 1399-1409*

L**Lab-on-a-chip**

- A High-Resolution Minimicroscope System for Wireless Real-Time Monitoring. *Wang, Z.*, +, *TBME July 2018 1524-1531*
- A Three-Dimensional Arrayed Microfluidic Blood-Brain Barrier Model With Integrated Electrical Sensor Array. *Jeong, S.*, +, *TBME Feb. 2018 431-439*
- Electromechanical Coupling Factor of Breast Tissue as a Biomarker for Breast Cancer. *Park, K.*, +, *TBME Jan. 2018 96-103*

Laminar flow

- Automatic Early-Onset Free Flap Failure Detection for Implantable Biomedical Devices. *Rothfuss, M.A.*, +, *TBME Oct. 2018 2290-2297*

Laplace equations

- Feature-Based Representation Improves Color Decomposition and Nuclear Detection Using a Convolutional Neural Network. *Khoshdeli, M.*, +, *TBME March 2018 625-634*

Laser ablation

- MRI-Guided Robotically Assisted Focal Laser Ablation of the Prostate Using Canine Cadavers. *Chen, Y.*, +, *TBME July 2018 1434-1442*

Laser applications in medicine

- Broadband Vibration Detection in Tissue Phantoms Using a Fiber Fabry-Perot Cavity. *Barnes, J.*, +, *TBME April 2018 921-927*
- Hypoperfusion Induced by Preconditioning Treadmill Training in Hyper-Early Reperfusion After Cerebral Ischemia: A Laser Speckle Imaging Study. *He, Z.*, +, *TBME Jan. 2018 219-223*
- Monitoring Acute Stroke in Mouse Model Using Laser Speckle Imaging-Guided Visible-Light Optical Coherence Tomography. *Liu, Q.*, +, *TBME Oct. 2018 2136-2142*
- MRI-Guided Robotically Assisted Focal Laser Ablation of the Prostate Using Canine Cadavers. *Chen, Y.*, +, *TBME July 2018 1434-1442*
- Pressure in the Cochlea During Infrared Irradiation. *Xia, N.*, +, *TBME July 2018 1575-1584*
- Time-Dependent Behavior of Microvascular Blood Flow and Oxygenation: A Predictor of Functional Outcomes. *Kuliga, K.Z.*, +, *TBME May 2018 1049-1056*

Laser cavity resonators

- Broadband Vibration Detection in Tissue Phantoms Using a Fiber Fabry-Perot Cavity. *Barnes, J.*, +, *TBME April 2018 921-927*

Laser frequency stability

- Broadband Vibration Detection in Tissue Phantoms Using a Fiber Fabry-Perot Cavity. *Barnes, J.*, +, *TBME April 2018 921-927*

Lasers

- Detecting Vascular Age Using the Analysis of Peripheral Pulse. *Sorelli, M.*, +, *TBME Dec. 2018 2742-2750*

Learning (artificial intelligence)

- A Cascaded Deep Convolutional Neural Network for Joint Segmentation and Genotype Prediction of Brainstem Gliomas. *Liu, J.*, +, *TBME Sept. 2018 1943-1952*
- A Machine Learning Approach to Automated Gait Analysis for the Noldus Catwalk System. *Frohlich, H.*, +, *TBME May 2018 1133-1139*
- A Regularized Deep Learning Approach for Clinical Risk Prediction of Acute Coronary Syndrome Using Electronic Health Records. *Huang, Z.*, +, *TBME May 2018 956-968*
- Brain MR Image Restoration Using an Automatic Trilateral Filter With GPU-Based Acceleration. *Chang, H.*, +, *TBME Feb. 2018 400-413*
- Classification of Pre-Clinical Seizure States Using Scalp EEG Cross-Frequency Coupling Features. *Jacobs, D.*, +, *TBME Nov. 2018 2440-2449*
- Deep Residual Learning for Accelerated MRI Using Magnitude and Phase Networks. *Lee, D.*, +, *TBME Sept. 2018 1985-1995*
- Deformable Image Registration Using a Cue-Aware Deep Regression Network. *Cao, X.*, +, *TBME Sept. 2018 1900-1911*
- EEG-Based Affect and Workload Recognition in a Virtual Driving Environment for ASD Intervention. *Fan, J.*, +, *TBME Jan. 2018 43-51*
- Electrophysiological Muscle Classification Using Multiple Instance Learning and Unsupervised Time and Spectral Domain Analysis. *Kamali, T.*, +, *TBME Nov. 2018 2494-2502*
- Euler Elastica Regularized Logistic Regression for Whole-Brain Decoding of fMRI Data. *Zhang, C.*, +, *TBME July 2018 1639-1653*
- Joint Segment-Level and Pixel-Wise Losses for Deep Learning Based Retinal Vessel Segmentation. *Yan, Z.*, +, *TBME Sept. 2018 1912-1923*
- Learning Based Segmentation of CT Brain Images: Application to Postoperative Hydrocephalic Scans. *Cherukuri, V.*, +, *TBME Aug. 2018 1871-1884*
- Limb Position Tolerant Pattern Recognition for Myoelectric Prosthesis Control with Adaptive Sparse Representations From Extreme Learning. *Bethausser, J.L.*, +, *TBME April 2018 770-778*
- Multiclass Classification of Word Imagination Speech With Hybrid Connectivity Features. *Qureshi, M.N.I.*, +, *TBME Oct. 2018 2168-2177*
- Multiple Instance Dictionary Learning for Beat-to-Beat Heart Rate Monitoring From Ballistocardiograms. *Jiao, C.*, +, *TBME Nov. 2018 2634-2648*
- Muscle Activation and Inertial Motion Data for Noninvasive Classification of Activities of Daily Living. *Totty, M.S.*, +, *TBME May 2018 1069-1076*
- Personalized Risk Scoring for Critical Care Prognosis Using Mixtures of Gaussian Processes. *Alaa, A.M.*, +, *TBME Jan. 2018 207-218*
- Shared and Subject-Specific Dictionary Learning (ShSSDL) Algorithm for Multisubject fMRI Data Analysis. *Iqbal, A.*, +, *TBME Nov. 2018 2519-2528*
- Tensor Decomposition of Gait Dynamics in Parkinson's Disease. *Pham, T.D.*, +, *TBME Aug. 2018 1820-1827*
- Towards Improved Design and Evaluation of Epileptic Seizure Predictors. *Korshunova, I.*, +, *TBME March 2018 502-510*
- Tractography-Based Score for Learning Effective Connectivity From Multimodal Imaging Data Using Dynamic Bayesian Networks. *Dang, S.*, +, *TBME May 2018 1057-1068*
- Transfer Learning: A Riemannian Geometry Framework With Applications to Brain-Computer Interfaces. *Zanini, P.*, +, *TBME May 2018 1107-1116*
- Turn Intent Detection For Control of a Lower Limb Prosthesis. *Pew, C.*, +, *TBME April 2018 789-796*
- Using Machine Learning and a Combination of Respiratory Flow, Laryngeal Motion, and Swallowing Sounds to Classify Safe and Unsafe Swallowing. *Inoue, K.*, +, *TBME Nov. 2018 2529-2541*
- Viscosity Prediction in a Physiologically Controlled Ventricular Assist Device. *Petrou, A.*, +, *TBME Oct. 2018 2355-2364*
- Legged locomotion**
- Inertial Sensing for Gait Event Detection and Transfemoral Prosthesis Control Strategy. *Ledoux, E.D.*, *TBME Dec. 2018 2704-2712*
- Lenses**
- Three-Dimensional Model of Electroretinogram Field Potentials in the Rat Eye. *Selner, A.N.*, +, *TBME Dec. 2018 2781-2789*
- Lesions**
- Three-Dimensional Model of Electroretinogram Field Potentials in the Rat Eye. *Selner, A.N.*, +, *TBME Dec. 2018 2781-2789*

Lifting

Feasibility of a Biomechanically-Assistive Garment to Reduce Low Back Loading During Leaning and Lifting. *Lamers, E.P.*, +, *TBME Aug. 2018 1674-1680*

Light propagation

Coded-Aperture Compressed Sensing X-Ray Luminescence Tomography. *Tzoumas, S.*, +, *TBME Aug. 2018 1892-1895*

Light sources

Distortion Distribution of Neural Spike Train Sequence Matching With Optogenetics. *Noel, A.*, +, *TBME Dec. 2018 2814-2826*

Lighting

Visible Illumination Enhanced Nonenzymatic Glucose Photobiosensor Based on TiO₂ Nanorods Decorated With Au Nanoparticles. *Wang, S.*, +, *TBME Sept. 2018 2052-2057*

Liver

A Hybrid Image Registration and Matching Framework for Real-Time Motion Tracking in MRI-Guided Radiotherapy. *Seregni, M.*, +, *TBME Jan. 2018 131-139*

Characterization of Conductivity Changes During High-Frequency Irreversible Electroporation for Treatment Planning. *Zhao, Y.*, +, *TBME Aug. 2018 1810-1819*

Characterization of Nonlinearity and Dispersion in Tissue Impedance During High-Frequency Electroporation. *Bhonsle, S.*, +, *TBME Oct. 2018 2190-2201*

Closed-Loop Lumped Parameter Modeling of Hemodynamics During Cirrhogenesis in Rats. *Audebert, C.*, +, *TBME Oct. 2018 2311-2322*

Dielectric Properties of *Ex Vivo* Porcine Liver Tissue Characterized at Frequencies Between 5 and 500 kHz When Heated at Different Rates. *Deas Yero, D.*, +, *TBME Nov. 2018 2560-2568*

Real-Time Error Control for Surgical Simulation. *Bui, H.P.*, +, *TBME March 2018 596-607*

Semiautomatic Radiofrequency Ablation Planning Based on Constrained Clustering Process for Hepatic Tumors. *Chen, R.*, +, *TBME March 2018 645-657*

Logic gates

Estimating Brain Connectivity With Varying-Length Time Lags Using a Recurrent Neural Network. *Wang, Y.*, +, *TBME Sept. 2018 1953-1963*

Loop antennas

Near-Field Inductive-Coupling Link to Power a Three-Dimensional Millimeter-Size Antenna for Brain Implantable Medical Devices. *Manoufali, M.*, +, *TBME Jan. 2018 4-14*

Luminescence

Generalized Adaptive Gaussian Markov Random Field for X-Ray Luminescence Computed Tomography. *Zhang, G.*, +, *TBME Sept. 2018 2130-2133*

Lungs

Cardio-Pulmonary Stethoscope: Clinical Validation With Heart Failure and Hemodialysis Patients. *Iskander, M.F.*, +, *TBME May 2018 1176-1180*

Computerized Lung Sound Screening for Pediatric Auscultation in Noisy Field Environments. *Emmanouilidou, D.*, +, *TBME July 2018 1564-1574*

Depth-Based Whole Body Photoplethysmography in Remote Pulmonary Function Testing. *Soleimani, V.*, +, *TBME June 2018 1421-1431*

Ex Vivo Modeling of Perioperative Air Leaks in Porcine Lungs. *Klassen, C.*, +, *TBME Dec. 2018 2827-2836*

On the Feasibility of Automated Mechanical Ventilation Control Through EIT. *Tregidgo, H.F.J.*, +, *TBME Nov. 2018 2459-2470*

ResCSRF: Algorithm to Automatically Extract Cheyne–Stokes Respiration Features From Respiratory Signals. *Javed, F.*, +, *TBME March 2018 669-677*

M**Machine learning**

Guest Editorial Special Issue on Deep Learning in Medical Imaging. *Shen, D.*, +, *TBME Sept. 2018 1898-1899*

Magnetic field integral equations

The ICVSIE: A General Purpose Integral Equation Method for Bio-Electromagnetic Analysis. *Gomez, L.J.*, +, *TBME March 2018 565-574*

Magnetic particles

Optimization of the Working Conditions for Magnetic Nanoparticle-Enhanced Microwave Diagnostics of Breast Cancer. *Bellizzi, G.*, +, *TBME July 2018 1607-1616*

Magnetic resonance imaging

Magnetomotive Displacement of the Tympanic Membrane Using Magnetic Nanoparticles: Toward Enhancement of Sound Perception. *Huang, P.*, +, *TBME Dec. 2018 2837-2846*

Medical Image Synthesis with Deep Convolutional Adversarial Networks. *Nie, D.*, +, *TBME Dec. 2018 2720-2730*

Magnetic resonance spectroscopy

Low Rank Enhanced Matrix Recovery of Hybrid Time and Frequency Data in Fast Magnetic Resonance Spectroscopy. *Lu, H.*, +, *TBME April 2018 809-820*

Semiblind Spectral Factorization Approach for Magnetic Resonance Spectroscopy Quantification. *Ferdowski, S.*, +, *TBME Aug. 2018 1717-1724*

Magnetic sensors

Joint Magnetic Calibration and Localization Based on Expectation Maximization for Tongue Tracking. *Lu, J.*, +, *TBME Jan. 2018 52-63*

Magnetic susceptibility

Single-Scan High-Resolution 2-D J-Resolved Spectroscopy in Inhomogeneous Magnetic Fields. *Wang, K.*, +, *TBME Feb. 2018 440-448*

Magnetoacoustic effects

Conductivity Anisotropy Influence on Acoustic Sources for Magnetoacoustic Tomography With Magnetic Induction. *Yu, Z.*, +, *TBME Nov. 2018 2512-2518*

Magneto-acousto-electrical Measurement Based Electrical Conductivity Reconstruction for Tissues. *Zhou, Y.*, +, *TBME May 2018 1086-1094*

Magnetomotive Displacement of the Tympanic Membrane Using Magnetic Nanoparticles: Toward Enhancement of Sound Perception. *Huang, P.*, +, *TBME Dec. 2018 2837-2846*

Magnetoencephalography

Computationally Efficient Algorithms for Sparse, Dynamic Solutions to the EEG Source Localization Problem. *Pirondini, E.*, +, *TBME June 2018 1359-1372*

Electromagnetic Brain Source Imaging by Means of a Robust Minimum Variance Beamformer. *Hossein Hosseini, S.A.*, +, *TBME Oct. 2018 2365-2374*

Reducing Sensor Noise in MEG and EEG Recordings Using Oversampled Temporal Projection. *Larson, E.*, +, *TBME May 2018 1002-1013*

Magnets

Magnet-Assisted Hydraulic Bougienage for Correction of Long-Gap Esophageal Atresia. *Noh, M.*, +, *TBME Oct. 2018 2178-2189*

Malignant tumors

Effect of Low-Field High-Frequency nsPEFs on the Biological Behaviors of Human A375 Melanoma Cells. *Zhang, B.*, +, *TBME Sept. 2018 2093-2100*

Mammography

Using Microbubble as Contrast Agent for High-Energy X-Ray In-line Phase Contrast Imaging: Demonstration and Comparison Study. *Wu, D.*, +, *TBME May 2018 1117-1123*

Man-machine systems

Robust Real-Time Musculoskeletal Modeling Driven by Electromyograms. *Durandau, G.*, +, *TBME March 2018 556-564*

Manipulators

A Novel Telemanipulated Robotic Assistant for Surgical Endoscopy: Pre-clinical Application to ESD. *Zorn, L.*, +, *TBME April 2018 797-808*

Multi-Imager Compatible, MR Safe, Remote Center of Motion Needle-Guide Robot. *Stoianovici, D.*, +, *TBME Jan. 2018 165-177*

Optimal Mixed Tracking/Impedance Control With Application to Transfemoral Prostheses With Energy Regeneration. *Khademi, G.*, +, *TBME April 2018 894-910*

Manometers

A Procedure for the Automatic Analysis of High-Resolution Manometry Data to Support the Clinical Diagnosis of Esophageal Motility Disorders. *Frigo, A.*, +, *TBME July 2018 1476-1485*

Matched filters

Automatic Detection of Retinal Lesions for Screening of Diabetic Retinopathy. *Kar, S.S.*, +, *TBME March 2018 608-618*

Matched Filtering for Heart Rate Estimation on Compressive Sensing ECG Measurements. *Da Poian, G.*, +, *TBME June 2018 1349-1358*

Mathematical model

An Optimization-Based Algorithm for the Construction of Cardiac Purkinje Network Models. *Ulysses, J.N.*, +, *TBME Dec. 2018 2760-2768*

EEG for Current With Two-Dimensional Support. *Dassios, G.*, +, *TBME Sept. 2018 2101-2108*

Modeling Subcutaneous Absorption of Fast-Acting Insulin in Type 1 Diabetes. *Schiavon, M.*, +, *TBME Sept. 2018 2079-2086*

Mathematical morphology

Automatic Detection of Retinal Lesions for Screening of Diabetic Retinopathy. *Kar, S.S.*, +, *TBME March 2018 608-618*

Matrix algebra

Fast and Stable Signal Deconvolution via Compressible State-Space Models. *Kazempour, A.*, +, *TBME Jan. 2018 74-86*

Low Rank Enhanced Matrix Recovery of Hybrid Time and Frequency Data in Fast Magnetic Resonance Spectroscopy. *Lu, H.*, +, *TBME April 2018 809-820*

Matrix decomposition

Feature-Based Representation Improves Color Decomposition and Nuclear Detection Using a Convolutional Neural Network. *Khoshdeli, M.*, +, *TBME March 2018 625-634*

Semiblind Spectral Factorization Approach for Magnetic Resonance Spectroscopy Quantification. *Ferdowsi, S.*, +, *TBME Aug. 2018 1717-1724*

Tensor Decomposition of Gait Dynamics in Parkinson's Disease. *Pham, T.D.*, +, *TBME Aug. 2018 1820-1827*

Maximum likelihood estimation

Super-Resolution Axial Localization of Ultrasound Scatter Using Multi-Focal Imaging. *Diamantis, K.*, +, *TBME Aug. 2018 1840-1851*

Maxwell equations

Modeling of Electroporation Induced by Pulsed Electric Fields in Irregularly Shaped Cells. *Mescia, L.*, +, *TBME Feb. 2018 414-423*

Measurement errors

Toward Ubiquitous Blood Pressure Monitoring via Pulse Transit Time: Predictions on Maximum Calibration Period and Acceptable Error Limits. *Mukkamala, R.*, +, *TBME June 2018 1410-1420*

Measurement uncertainty

Uncertainty in Limb Configuration Makes Minimal Contribution to Errors Between Observed and Predicted Forces in a Musculoskeletal Model of the Rat Hindlimb. *Wei, Q.*, +, *TBME Feb. 2018 469-476*

Medical computing

Adaptive Estimation of the Neural Activation Extent in Computational Volume Conductor Models of Deep Brain Stimulation. *Schmidt, C.*, +, *TBME Aug. 2018 1828-1839*

Analysis of Energy-Based Metrics for Laparoscopic Skills Assessment. *Poursartip, B.*, +, *TBME July 2018 1532-1542*

Event-Triggered Model Predictive Control for Embedded Artificial Pancreas Systems. *Chakrabarty, A.*, +, *TBME March 2018 575-586*

Generalisability of a Virtual Trials Method for Glycaemic Control in Intensive Care. *Dickson, J.L.*, +, *TBME July 2018 1543-1553*

Joint Magnetic Calibration and Localization Based on Expectation Maximization for Tongue Tracking. *Lu, J.*, +, *TBME Jan. 2018 52-63*

Personalized Risk Scoring for Critical Care Prognosis Using Mixtures of Gaussian Processes. *Alaa, A.M.*, +, *TBME Jan. 2018 207-218*

Procedure-Specific Validation of Artificial Vertebrae. *Hollensteiner, M.*, +, *TBME Aug. 2018 1852-1858*

Sequential Therapeutic Response Modeling for Tumor Treatment Using Computational Hybrid Control Systems Approach. *Oduola, W.O.*, +, *TBME April 2018 866-874*

Simple, Transparent, and Flexible Automated Quality Assessment Procedures for Ambulatory Electrodermal Activity Data. *Kleckner, I.R.*, +, *TBME July 2018 1460-1467*

Towards Improved Design and Evaluation of Epileptic Seizure Predictors. *Korshunova, I.*, +, *TBME March 2018 502-510*

Medical control systems

Closed-Loop Vagus Nerve Stimulation Based on State Transition Models. *Romero-Ugalde, H.M.*, +, *TBME July 2018 1630-1638*

Design and Development of Surgeon Augmented Endovascular Robotic System. *Sankaran, N.K.*, +, *TBME Nov. 2018 2483-2493*

Extremum Seeking Control for Personalized Zone Adaptation in Model Predictive Control for Type 1 Diabetes. *Cao, Z.*, +, *TBME Aug. 2018 1859-1870*

Limb Position Tolerant Pattern Recognition for Myoelectric Prosthesis Control with Adaptive Sparse Representations From Extreme Learning. *Bethausser, J.L.*, +, *TBME April 2018 770-778*

Model Free iPID Control for Glycemia Regulation of Type-1 Diabetes. *MohammadRidha, T.*, +, *TBME Jan. 2018 199-206*

Optimal Mixed Tracking/Impedance Control With Application to Transfemoral Prostheses With Energy Regeneration. *Khademi, G.*, +, *TBME April 2018 894-910*

Sequential Therapeutic Response Modeling for Tumor Treatment Using Computational Hybrid Control Systems Approach. *Oduola, W.O.*, +, *TBME April 2018 866-874*

Viscosity Prediction in a Physiologically Controlled Ventricular Assist Device. *Petrou, A.*, +, *TBME Oct. 2018 2355-2364*

Visual Servoed Three-Dimensional Rotation Control in Zebrafish Larva Heart Microinjection System. *Zhuang, S.*, +, *TBME Jan. 2018 64-73*

Medical diagnostic computing

A Procedure for the Automatic Analysis of High-Resolution Manometry Data to Support the Clinical Diagnosis of Esophageal Motility Disorders. *Frigo, A.*, +, *TBME July 2018 1476-1485*

Medical disorders

A Functional-Genetic Scheme for Seizure Forecasting in Canine Epilepsy. *Bou Assi, E.*, +, *TBME June 2018 1339-1348*

A Novel Approach for Real-Time Recognition of Epileptic Seizures Using Minimum Variance Modified Fuzzy Entropy. *Raghu, S.*, +, *TBME Nov. 2018 2612-2621*

A Procedure for the Automatic Analysis of High-Resolution Manometry Data to Support the Clinical Diagnosis of Esophageal Motility Disorders. *Frigo, A.*, +, *TBME July 2018 1476-1485*

A State Space and Density Estimation Framework for Sleep Staging in Obstructive Sleep Apnea. *Kang, D.Y.*, +, *TBME June 2018 1201-1212*

Acoustical Emission Analysis by Unsupervised Graph Mining: A Novel Biomarker of Knee Health Status. *Hersek, S.*, +, *TBME June 2018 1291-1300*

Adaptive Sparse Multiple Canonical Correlation Analysis With Application to Imaging (Epi)Genomics Study of Schizophrenia. *Hu, W.*, +, *TBME Feb. 2018 390-399*

An MRI-Compatible Hydrodynamic Simulator of Cerebrospinal Fluid Motion in the Cervical Spine. *Thyagaraj, S.*, +, *TBME July 2018 1516-1523*

Automated Detection of Postictal Generalized EEG Suppression. *Theeranaew, W.*, +, *TBME Feb. 2018 371-377*

Automatic Identification of Reentry Mechanisms and Critical Sites During Atrial Tachycardia by Analyzing Areas of Activity. *Oesterlein, T.G.*, +, *TBME Oct. 2018 2334-2344*

Classification of Pre-Clinical Seizure States Using Scalp EEG Cross-Frequency Coupling Features. *Jacobs, D.*, +, *TBME Nov. 2018 2440-2449*

Continuous Assessment of Levodopa Response in Parkinson's Disease Using Wearable Motion Sensors. *Pulliam, C.L.*, +, *TBME Jan. 2018 159-164*

EEG-Based Affect and Workload Recognition in a Virtual Driving Environment for ASD Intervention. *Fan, J.*, +, *TBME Jan. 2018 43-51*

Effect of Tissue Heterogeneity on the Transmembrane Potential of Type-1 Spiral Ganglion Neurons: A Simulation Study. *Sriperumbudur, K.K.*, +, *TBME March 2018 658-668*

Electromagnetic Brain Source Imaging by Means of a Robust Minimum Variance Beamformer. *Hossein Hosseini, S.A.*, +, *TBME Oct. 2018 2365-2374*

Electrophysiological Muscle Classification Using Multiple Instance Learning and Unsupervised Time and Spectral Domain Analysis. *Kamali, T.*, +, *TBME Nov. 2018 2494-2502*

Epileptic Seizure Detection in Long-Term EEG Recordings by Using Wavelet-Based Directed Transfer Function. *Wang, D.*, +, *TBME Nov. 2018 2591-2599*

Evaluation of an Integrated System of Wearable Physiological Sensors for Stress Monitoring in Working Environments by Using Biological Markers. *Betti, S.*, +, *TBME Aug. 2018 1748-1758*

GriFT: A Device for Quantifying Physiological and Pathological Mirror Movements in Children. *Jaspers, E.*, +, *TBME April 2018 857-865*

Learning Based Segmentation of CT Brain Images: Application to Postoperative Hydrocephalic Scans. *Cherukuri, V.*, +, *TBME Aug. 2018 1871-1884*

Localization of Origins of Premature Ventricular Contraction by Means of Convolutional Neural Network From 12-Lead ECG. *Yang, T.*, +, *TBME July 2018 1662-1671*

Low-to-High Cross-Frequency Coupling in the Electrical Rhythms as Biomarker for Hyperexcitable Neuroglial Networks of the Brain. *Grigorenko, V.*, +, *TBME July 2018 1504-1515*

Magnet-Assisted Hydraulic Bougienage for Correction of Long-Gap Esophageal Atresia. *Noh, M.*, +, *TBME Oct. 2018 2178-2189*

Model-Based Assessment of f-Wave Signal Quality in Patients With Atrial Fibrillation. *Henriksson, M.*, +, *TBME Nov. 2018 2600-2611*

Real-Time Automatic Apneic Event Detection Using Nocturnal Pulse Oximetry. *Jung, D.W.*, +, *TBME March 2018 706-712*

ResCSRf: Algorithm to Automatically Extract Cheyne-Stokes Respiration Features From Respiratory Signals. *Javed, F.*, +, *TBME March 2018 669-677*

Screening for Cognitive Impairment by Model-Assisted Cerebral Blood Flow Estimation. *Lassila, T.*, +, *TBME July 2018 1654-1661*

Tensor Decomposition of Gait Dynamics in Parkinson's Disease. *Pham, T.D.*, +, *TBME Aug. 2018 1820-1827*

Time-Varying Time-Frequency Complexity Measures for Epileptic EEG Data Analysis. *Colominas, M.A.*, +, *TBME Aug. 2018 1681-1688*

Topological Properties of the Structural Brain Network in Autism via -Neighbor Method. *Lee, M.*, +, *TBME Oct. 2018 2323-2333*

Towards Improved Design and Evaluation of Epileptic Seizure Predictors. *Korshunova, I.*, +, *TBME March 2018 502-510*

Medical image processing

- In Vivo* Superresolution Imaging of Neuronal Structure in the Mouse Brain. Urban, B.E., +, *TBME Jan. 2018* 232-238
- A Cascaded Deep Convolutional Neural Network for Joint Segmentation and Genotype Prediction of Brainstem Gliomas. Liu, J., +, *TBME Sept. 2018* 1943-1952
- A Centerline-Based Model Morphing Algorithm for Patient-Specific Finite Element Modeling of the Left Ventricle. Behdadfar, S., +, *TBME June 2018* 1391-1398
- A Delayed-Excitation Data Acquisition Method for High-Frequency Ultrasound Imaging. Qiu, W., +, *TBME Jan. 2018* 15-20
- A Hybrid Image Registration and Matching Framework for Real-Time Motion Tracking in MRI-Guided Radiotherapy. Seregini, M., +, *TBME Jan. 2018* 131-139
- A Methodology for Non-Invasive 3-D Surveillance of Arteriovenous Fistulae Using Freehand Ultrasound. Colley, E., +, *TBME Aug. 2018* 1885-1891
- A Novel Telemanipulated Robotic Assistant for Surgical Endoscopy: Pre-clinical Application to ESD. Zorn, L., +, *TBME April 2018* 797-808
- A Radiomics Approach With CNN for Shear-Wave Elastography Breast Tumor Classification. Zhou, Y., +, *TBME Sept. 2018* 1935-1942
- A Time-Reversal Imaging System for Breast Screening: Theory and Initial Phantom Results. Yousefnia, M., +, *TBME Nov. 2018* 2542-2551
- Accelerated Cardiac Diffusion Tensor Imaging Using Joint Low-Rank and Sparsity Constraints. Ma, S., +, *TBME Oct. 2018* 2219-2230
- Adaptive Sparse Multiple Canonical Correlation Analysis With Application to Imaging (Epi)Genomics Study of Schizophrenia. Hu, W., +, *TBME Feb. 2018* 390-399
- An Automated System for the Detection and Classification of Retinal Changes Due to Red Lesions in Longitudinal Fundus Images. Adal, K.M., +, *TBME June 2018* 1382-1390
- An Efficient Integral-Based Method for Three-Dimensional MR-EPT and the Calculation of the RF-Coil-Induced B_z Field. Guo, L., +, *TBME Feb. 2018* 282-293
- An MRI-Compatible Hydrodynamic Simulator of Cerebrospinal Fluid Motion in the Cervical Spine. Thyagaraj, S., +, *TBME July 2018* 1516-1523
- Automated *In Vivo* Sub-Hertz Analysis of Viscoelasticity (SAVE) for Evaluation of Breast Lesions. Bayat, M., +, *TBME Oct. 2018* 2237-2247
- Automatic Detection of Retinal Lesions for Screening of Diabetic Retinopathy. Kar, S.S., +, *TBME March 2018* 608-618
- Automatic Subretinal Fluid Segmentation of Retinal SD-OCT Images With Neurosensory Retinal Detachment Guided by Enface Fundus Imaging. Wu, M., +, *TBME Jan. 2018* 87-95
- Automatic Temporal Segmentation of Vessels of the Brain Using 4D ASL MRA Images. Phellan, R., +, *TBME July 2018* 1486-1494
- Brain MR Image Restoration Using an Automatic Trilateral Filter With GPU-Based Acceleration. Chang, H., +, *TBME Feb. 2018* 400-413
- Coded-Aperture Compressed Sensing X-Ray Luminescence Tomography. Tzoumas, S., +, *TBME Aug. 2018* 1892-1895
- Color Retinal Image Enhancement Based on Luminosity and Contrast Adjustment. Zhou, M., +, *TBME March 2018* 521-527
- Conductivity Anisotropy Influence on Acoustic Sources for Magnetoacoustic Tomography With Magnetic Induction. Yu, Z., +, *TBME Nov. 2018* 2512-2518
- Deep Residual Learning for Accelerated MRI Using Magnitude and Phase Networks. Lee, D., +, *TBME Sept. 2018* 1985-1995
- Deformable Image Registration Using a Cue-Aware Deep Regression Network. Cao, X., +, *TBME Sept. 2018* 1900-1911
- Depth-Based Whole Body Photoplethysmography in Remote Pulmonary Function Testing. Soleimani, V., +, *TBME June 2018* 1421-1431
- Double-Stage Delay Multiply and Sum Beamforming Algorithm: Application to Linear-Array Photoacoustic Imaging. Mozaffarzadeh, M., +, *TBME Jan. 2018* 31-42
- Dual Temporal and Spatial Sparse Representation for Inferring Group-Wise Brain Networks From Resting-State fMRI Dataset. Gong, J., +, *TBME May 2018* 1035-1048
- Electrocardiogram Signal Quality Assessment Based on Structural Image Similarity Metric. Shahriari, Y., +, *TBME April 2018* 745-753
- Euler Elastica Regularized Logistic Regression for Whole-Brain Decoding of fMRI Data. Zhang, C., +, *TBME July 2018* 1639-1653
- Fabrication and Performance of a Miniaturized and Integrated Endoscope Ultrasound Convex Array for Digestive Tract Imaging. Peng, J., +, *TBME Jan. 2018* 140-148
- Fully Automated Segmentation of Fluid/Cyst Regions in Optical Coherence Tomography Images With Diabetic Macular Edema Using Neutrosophic Sets and Graph Algorithms. Rashno, A., +, *TBME May 2018* 989-1001
- Highly Accurate Facial Nerve Segmentation Refinement From CBCT/CT Imaging Using a Super-Resolution Classification Approach. Lu, P., +, *TBME Jan. 2018* 178-188
- Identification of Ultrasonic Echo-lucent Carotid Plaques Using Discrete Fréchet Distance Between Bimodal Gamma Distributions. Huang, X., +, *TBME May 2018* 949-955
- Joint Segment-Level and Pixel-Wise Losses for Deep Learning Based Retinal Vessel Segmentation. Yan, Z., +, *TBME Sept. 2018* 1912-1923
- Latency Management in Scribble-Based Interactive Segmentation of Medical Images. Gueziri, H., +, *TBME May 2018* 1140-1150
- Learning Based Segmentation of CT Brain Images: Application to Postoperative Hydrocephalic Scans. Cherukuri, V., +, *TBME Aug. 2018* 1871-1884
- Low Rank Enhanced Matrix Recovery of Hybrid Time and Frequency Data in Fast Magnetic Resonance Spectroscopy. Lu, H., +, *TBME April 2018* 809-820
- Magneto-acousto-electrical Measurement Based Electrical Conductivity Reconstruction for Tissues. Zhou, Y., +, *TBME May 2018* 1086-1094
- Mechanical Imaging of Soft Tissues With a Highly Compliant Tactile Sensing Array. Li, B., +, *TBME March 2018* 687-697
- Microwave Breast Imaging: Clinical Advances and Remaining Challenges. O Loughlin, D., +, *TBME Nov. 2018* 2580-2590
- Minimizing the Translation Error in the Application of an Oblique Single-Cut Rotation Osteotomy: Where to Cut?. Dobbe, J.G.G., +, *TBME April 2018* 821-827
- Modeling Touch and Palpation Using Autoregressive Models. Laufer, S., +, *TBME July 2018* 1585-1594
- Monitoring Acute Stroke in Mouse Model Using Laser Speckle Imaging-Guided Visible-Light Optical Coherence Tomography. Liu, Q., +, *TBME Oct. 2018* 2136-2142
- Multi-Imager Compatible, MR Safe, Remote Center of Motion Needle-Guide Robot. Stoianovici, D., +, *TBME Jan. 2018* 165-177
- Multi-Views Fusion CNN for Left Ventricular Volumes Estimation on Cardiac MR Images. Luo, G., +, *TBME Sept. 2018* 1924-1934
- Noninvasive Assessment of Jugular Venous Pressure via Force-Coupled Single Crystal Ultrasound. Singh, R., +, *TBME Aug. 2018* 1705-1710
- Optimization of the Working Conditions for Magnetic Nanoparticle-Enhanced Microwave Diagnostics of Breast Cancer. Bellizzi, G., +, *TBME July 2018* 1607-1616
- Optimization-Based Image Reconstruction From Low-Count, List-Mode TOF-PET Data. Zhang, Z., +, *TBME April 2018* 936-946
- Orbit Segmentation by Surface Reconstruction With Automatic Sliced Vertex Screening. Hsung, T., +, *TBME April 2018* 828-838
- Quantitative Testing of fMRI-Compatibility of an Electrically Active Mechatronic Device for Robot-Assisted Sensorimotor Protocols. Farrens, A.J., +, *TBME July 2018* 1595-1606
- Real-Time Blood Pressure Estimation From Force-Measured Ultrasound. Zakrzewski, A.M., +, *TBME Nov. 2018* 2405-2416
- Real-Time Three-Dimensional Microwave Monitoring of Interstitial Thermal Therapy. Chen, G., +, *TBME March 2018* 528-538
- Reconnection of Interrupted Curvilinear Structures via Cortically Inspired Completion for Ophthalmologic Images. Zhang, J., +, *TBME May 2018* 1151-1165
- Representing Medical Images With Encoded Local Projections. Tizhoosh, H.R., +, *TBME Oct. 2018* 2267-2277
- Robust Multicontrast MRI Spleen Segmentation for Splenomegaly Using Multi-Atlas Segmentation. Huo, Y., +, *TBME Feb. 2018* 336-343
- Screening for Cognitive Impairment by Model-Assisted Cerebral Blood Flow Estimation. Lassila, T., +, *TBME July 2018* 1654-1661
- Semiblind Spectral Factorization Approach for Magnetic Resonance Spectroscopy Quantification. Ferdowsi, S., +, *TBME Aug. 2018* 1717-1724
- Shared and Subject-Specific Dictionary Learning (ShSSDL) Algorithm for Multisubject fMRI Data Analysis. Iqbal, A., +, *TBME Nov. 2018* 2519-2528
- Sparse Ultrasound Image Reconstruction From a Shape-Sensing Single-Element Forward-Looking Catheter. Janjic, J., +, *TBME Oct. 2018* 2210-2218
- Spatial Evidential Clustering With Adaptive Distance Metric for Tumor Segmentation in FDG-PET Images. Lian, C., +, *TBME Jan. 2018* 21-30
- Spatial Position Measurement System for Surgical Navigation Using 3-D Image Marker-Based Tracking Tools With Compact Volume. Fan, Z., +, *TBME Feb. 2018* 378-389
- Spatially Resolved MR-Compatible Doppler Ultrasound: Proof of Concept for Triggering of Diagnostic Quality Cardiovascular MRI for Function and Flow Quantification at 3T. Crowe, L.A., +, *TBME Feb. 2018* 294-306

- Stochastic Modeling of Temporal Enhanced Ultrasound: Impact of Temporal Properties on Prostate Cancer Characterization. *Nahlawi, L.*, +, *TBME Aug. 2018 1798-1809*
- Super-Resolution Axial Localization of Ultrasound Scatter Using Multi-Focal Imaging. *Diamantis, K.*, +, *TBME Aug. 2018 1840-1851*
- Temporal Dynamics Assessment of Spatial Overlap Pattern of Functional Brain Networks Reveals Novel Functional Architecture of Cerebral Cortex. *Jiang, X.*, +, *TBME June 2018 1183-1192*
- Tensor Sparse Representation for 3-D Medical Image Fusion Using Weighted Average Rule. *Yin, H.*, *TBME Nov. 2018 2622-2633*
- Three-Dimensional Noninvasive Imaging of Ventricular Arrhythmias in Patients With Premature Ventricular Contractions. *Yu, L.*, +, *TBME July 2018 1495-1503*
- Three-Dimensional Segmentation of the *Ex-Vivo* Anterior Lamina Cribrosa From Second-Harmonic Imaging Microscopy. *Ram, S.*, +, *TBME July 2018 1617-1629*
- Three-Dimensional Weighting in Cone Beam FBP Reconstruction and Its Transformation Over Geometries. *Tang, S.*, +, *TBME June 2018 1235-1244*
- Topological Properties of the Structural Brain Network in Autism via -Neighbor Method. *Lee, M.*, +, *TBME Oct. 2018 2323-2333*
- Tractography-Based Score for Learning Effective Connectivity From Multimodal Imaging Data Using Dynamic Bayesian Networks. *Dang, S.*, +, *TBME May 2018 1057-1068*
- Unambiguous Identification and Visualization of an Acoustically Active Catheter by Ultrasound Imaging in Real Time: Theory, Algorithm, and Phantom Experiments. *Kumar, V.*, +, *TBME July 2018 1468-1475*
- Uncertainty-Aware Organ Classification for Surgical Data Science Applications in Laparoscopy. *Moccia, S.*, +, *TBME Nov. 2018 2649-2659*
- User-Independent Intent Recognition for Lower Limb Prostheses Using Depth Sensing. *Massalin, Y.*, +, *TBME Aug. 2018 1759-1770*
- Using Microbubble as Contrast Agent for High-Energy X-Ray In-line Phase Contrast Imaging: Demonstration and Comparison Study. *Wu, D.*, +, *TBME May 2018 1117-1123*
- Visual Servoed Three-Dimensional Rotation Control in Zebrafish Larva Heart Microinjection System. *Zhuang, S.*, +, *TBME Jan. 2018 64-73*
- Medical information systems**
- A Regularized Deep Learning Approach for Clinical Risk Prediction of Acute Coronary Syndrome Using Electronic Health Records. *Huang, Z.*, +, *TBME May 2018 956-968*
- Interoperable End-to-End Remote Patient Monitoring Platform Based on IEEE 11073 PHD and ZigBee Health Care Profile. *Clarke, M.*, +, *TBME May 2018 1014-1025*
- Personalized Risk Scoring for Critical Care Prognosis Using Mixtures of Gaussian Processes. *Alaa, A.M.*, +, *TBME Jan. 2018 207-218*
- Medical robotics**
- A Comparison of Intention Estimation Methods for Decoder Calibration in Intracortical Brain-Computer Interfaces. *Willett, F.R.*, +, *TBME Sept. 2018 2066-2078*
- A Novel Telemanipulated Robotic Assistant for Surgical Endoscopy: Pre-clinical Application to ESD. *Zorn, L.*, +, *TBME April 2018 797-808*
- Analysis of Energy-Based Metrics for Laparoscopic Skills Assessment. *Poursartip, B.*, +, *TBME July 2018 1532-1542*
- Design and Development of Surgeon Augmented Endovascular Robotic System. *Sankaran, N.K.*, +, *TBME Nov. 2018 2483-2493*
- Metabolic Effects Induced by a Kinetically Compatible Hip Exoskeleton During STS. *Junius, K.*, +, *TBME June 2018 1399-1409*
- MRI-Guided Robotically Assisted Focal Laser Ablation of the Prostate Using Canine Cadavers. *Chen, Y.*, +, *TBME July 2018 1434-1442*
- Multi-Imager Compatible, MR Safe, Remote Center of Motion Needle-Guide Robot. *Stoianovici, D.*, +, *TBME Jan. 2018 165-177*
- Simulation of Constrained Musculoskeletal Systems in Task Space. *Stanev, D.*, +, *TBME Feb. 2018 307-318*
- Visual Limit-Push Training Alters Movement Variability. *Hajissa, E.*, +, *TBME Oct. 2018 2162-2167*
- Medical signal detection**
- A Functional-Genetic Scheme for Seizure Forecasting in Canine Epilepsy. *Bou Assi, E.*, +, *TBME June 2018 1339-1348*
- A Novel Approach for Real-Time Recognition of Epileptic Seizures Using Minimum Variance Modified Fuzzy Entropy. *Raghu, S.*, +, *TBME Nov. 2018 2612-2621*
- A Novel Short-Term Event Extraction Algorithm for Biomedical Signals. *Yazdani, S.*, +, *TBME April 2018 754-762*
- A Potential-Based Inverse Spectral Method to Noninvasively Localize Discordant Distributions of Alternans on the Heart From the ECG. *Coll-Font, J.*, +, *TBME July 2018 1554-1563*
- Automatic Identification of Reentry Mechanisms and Critical Sites During Atrial Tachycardia by Analyzing Areas of Activity. *Oesterlein, T.G.*, +, *TBME Oct. 2018 2334-2344*
- Dedicated Entropy Measures for Early Assessment of Pregnancy Progression From Single-Channel Electrohysterography. *Mischi, M.*, +, *TBME April 2018 875-884*
- Enhancing Detection of SSVEPs for a High-Speed Brain Speller Using Task-Related Component Analysis. *Nakanishi, M.*, +, *TBME Jan. 2018 104-112*
- Epidermal Electrode Technology for Detecting Ultrasonic Perturbation of Sensory Brain Activity. *Huang, S.*, +, *TBME June 2018 1272-1280*
- Heart Sound Segmentation—An Event Detection Approach Using Deep Recurrent Neural Networks. *Messner, E.*, +, *TBME Sept. 2018 1964-1974*
- In-Ear Audio Wearable: Measurement of Heart and Breathing Rates for Health and Safety Monitoring. *Martin, A.*, +, *TBME June 2018 1256-1263*
- Matched Filtering for Heart Rate Estimation on Compressive Sensing ECG Measurements. *Da Poian, G.*, +, *TBME June 2018 1349-1358*
- Medical signal processing**
- A Brain-Computer Interface Based on Miniature-Event-Related Potentials Induced by Very Small Lateral Visual Stimuli. *Xu, M.*, +, *TBME May 2018 1166-1175*
- A Comparison of Intention Estimation Methods for Decoder Calibration in Intracortical Brain-Computer Interfaces. *Willett, F.R.*, +, *TBME Sept. 2018 2066-2078*
- A Functional-Genetic Scheme for Seizure Forecasting in Canine Epilepsy. *Bou Assi, E.*, +, *TBME June 2018 1339-1348*
- A Novel Approach for Real-Time Recognition of Epileptic Seizures Using Minimum Variance Modified Fuzzy Entropy. *Raghu, S.*, +, *TBME Nov. 2018 2612-2621*
- A Novel Short-Term Event Extraction Algorithm for Biomedical Signals. *Yazdani, S.*, +, *TBME April 2018 754-762*
- A Potential-Based Inverse Spectral Method to Noninvasively Localize Discordant Distributions of Alternans on the Heart From the ECG. *Coll-Font, J.*, +, *TBME July 2018 1554-1563*
- A State Space and Density Estimation Framework for Sleep Staging in Obstructive Sleep Apnea. *Kang, D.Y.*, +, *TBME June 2018 1201-1212*
- A Time-Varying Nonparametric Methodology for Assessing Changes in QT Variability Unrelated to Heart Rate Variability. *Orini, M.*, +, *TBME July 2018 1443-1451*
- Aortic Pressure Estimation Using Blind Identification Approach on Single Input Multiple Output Nonlinear Wiener Systems. *Patel, A.M.*, +, *TBME June 2018 1193-1200*
- Arrhythmia Mechanism and Scaling Effect on the Spectral Properties of Electroanatomical Maps With Manifold Harmonics. *Sanroman-Junquera, M.*, +, *TBME April 2018 723-732*
- Automated Detection of Postictal Generalized EEG Suppression. *Theeranaew, W.*, +, *TBME Feb. 2018 371-377*
- Automatic Early-Onset Free Flap Failure Detection for Implantable Biomedical Devices. *Rothfuss, M.A.*, +, *TBME Oct. 2018 2290-2297*
- Broadband Vibration Detection in Tissue Phantoms Using a Fiber Fabry-Perot Cavity. *Barnes, J.*, +, *TBME April 2018 921-927*
- Classification of Pre-Clinical Seizure States Using Scalp EEG Cross-Frequency Coupling Features. *Jacobs, D.*, +, *TBME Nov. 2018 2440-2449*
- Closed-Loop Vagus Nerve Stimulation Based on State Transition Models. *Romero-Ugalde, H.M.*, +, *TBME July 2018 1630-1638*
- Computationally Efficient Algorithms for Sparse, Dynamic Solutions to the EEG Source Localization Problem. *Pirondini, E.*, +, *TBME June 2018 1359-1372*
- Computerized Lung Sound Screening for Pediatric Auscultation in Noisy Field Environments. *Emmanouilidou, D.*, +, *TBME July 2018 1564-1574*
- Consistency of Long-Term Subdural Electrooculography in Humans. *Nurse, E.S.*, +, *TBME Feb. 2018 344-352*
- Critical Closing Pressure During Controlled Increase in Intracranial Pressure—Comparison of Three Methods. *Kaczmarek, K.*, +, *TBME March 2018 619-624*
- Dedicated Entropy Measures for Early Assessment of Pregnancy Progression From Single-Channel Electrohysterography. *Mischi, M.*, +, *TBME April 2018 875-884*
- Ear-EEG-Based Objective Hearing Threshold Estimation Evaluated on Normal Hearing Subjects. *Christensen, C.B.*, +, *TBME May 2018 1026-1034*
- EEG-Based Affect and Workload Recognition in a Virtual Driving Environment for ASD Intervention. *Fan, J.*, +, *TBME Jan. 2018 43-51*

- Electromagnetic Brain Source Imaging by Means of a Robust Minimum Variance Beamformer. *Hossein Hosseini, S.A., +, TBME Oct. 2018 2365-2374*
- Electrophysiological Muscle Classification Using Multiple Instance Learning and Unsupervised Time and Spectral Domain Analysis. *Kamali, T., +, TBME Nov. 2018 2494-2502*
- Enhancing Detection of SSVEPs for a High-Speed Brain Speller Using Task-Related Component Analysis. *Nakanishi, M., +, TBME Jan. 2018 104-112*
- Epidermal Electrode Technology for Detecting Ultrasonic Perturbation of Sensory Brain Activity. *Huang, S., +, TBME June 2018 1272-1280*
- Epileptic Seizure Detection in Long-Term EEG Recordings by Using Wavelet-Based Directed Transfer Function. *Wang, D., +, TBME Nov. 2018 2591-2599*
- Evaluation of an Integrated System of Wearable Physiological Sensors for Stress Monitoring in Working Environments by Using Biological Markers. *Betti, S., +, TBME Aug. 2018 1748-1758*
- Extracorporeal Stimulation of Sacral Nerve Roots for Observation of Pelvic Autonomic Nerve Integrity: Description of a Novel Methodological Setup. *Moszkowski, T., +, TBME March 2018 550-555*
- Fast and Stable Signal Deconvolution via Compressible State-Space Models. *Kazemipour, A., +, TBME Jan. 2018 74-86*
- Feasibility of Automatic Error Detect-and-Undo System in Human Intracortical Brain-Computer Interfaces. *Even-Chen, N., +, TBME Aug. 2018 1771-1784*
- Four Novel Motion Paradigms Based on Steady-State Motion Visual Evoked Potential. *Yan, W., +, TBME Aug. 2018 1696-1704*
- Fusing Partial Camera Signals for Noncontact Pulse Rate Variability Measurement. *McDuff, D.J., +, TBME Aug. 2018 1725-1739*
- Heart Sound Segmentation—An Event Detection Approach Using Deep Recurrent Neural Networks. *Messner, E., +, TBME Sept. 2018 1964-1974*
- Identification of Ion Currents Components Generating Field Potential Recorded in MEA From hiPSC-CM. *Raphel, F., +, TBME June 2018 1311-1319*
- Improved Visualization of Gastrointestinal Slow Wave Propagation Using a Novel Wavefront-Oriented Interpolation Technique. *Mayne, T.P., +, TBME Feb. 2018 319-326*
- Limb Position Tolerant Pattern Recognition for Myoelectric Prosthesis Control with Adaptive Sparse Representations From Extreme Learning. *Bethausser, J.L., +, TBME April 2018 770-778*
- Localization of Origins of Premature Ventricular Contraction by Means of Convolutional Neural Network From 12-Lead ECG. *Yang, T., +, TBME July 2018 1662-1671*
- Low-to-High Cross-Frequency Coupling in the Electrical Rhythms as Biomarker for Hyperexcitable Neuroglial Networks of the Brain. *Grigorevsky, V., +, TBME July 2018 1504-1515*
- Methods for Improved Discrimination Between Ventricular Fibrillation and Tachycardia. *Alwan, Y., +, TBME Oct. 2018 2143-2151*
- Model-Based Assessment of f-Wave Signal Quality in Patients With Atrial Fibrillation. *Henriksson, M., +, TBME Nov. 2018 2600-2611*
- Modeling, Detecting, and Tracking Freezing of Gait in Parkinson Disease Using Inertial Sensors. *Prateek, G.V., +, TBME Oct. 2018 2152-2161*
- Mortality Prediction in Severe Congestive Heart Failure Patients With Multifractal Point-Process Modeling of Heartbeat Dynamics. *Valenza, G., +, TBME Oct. 2018 2345-2354*
- Multiclass Classification of Word Imagination Speech With Hybrid Connectivity Features. *Qureshi, M.N.I., +, TBME Oct. 2018 2168-2177*
- Multiple Instance Dictionary Learning for Beat-to-Beat Heart Rate Monitoring From Ballistocardiograms. *Jiao, C., +, TBME Nov. 2018 2634-2648*
- Muscle Activation and Inertial Motion Data for Noninvasive Classification of Activities of Daily Living. *Totty, M.S., +, TBME May 2018 1069-1076*
- N-Point Moving Average: A Special Generalized Transfer Function Method for Estimation of Central Aortic Blood Pressure. *Xiao, H., +, TBME June 2018 1226-1234*
- Novel Quantitative Analytical Approaches for Rotor Identification and Associated Implications for Mapping. *Annoni, E.M., +, TBME Feb. 2018 273-281*
- PARHELIA: Particle Filter-Based Heart Rate Estimation From Photoplethysmographic Signals During Physical Exercise. *Fujita, Y., +, TBME Jan. 2018 189-198*
- Post-Ventricular Premature Contraction Phase Correction Improves the Predictive Value of Average T-Wave Alternans in Ambulatory ECG Recordings. *Martin-Yebra, A., +, TBME March 2018 635-644*
- Reducing Sensor Noise in MEG and EEG Recordings Using Oversampled Temporal Projection. *Larson, E., +, TBME May 2018 1002-1013*
- Reducing the Computational Complexity of EEG Source Localization With Cortical Patch Decomposition and Optimal Electrode Selection. *Safavi, S.M., +, TBME Oct. 2018 2298-2310*
- Reduction of Blood Glucose Measurements to Calibrate Subcutaneous Glucose Sensors: A Bayesian Multiday Framework. *Acciaroli, G., +, TBME March 2018 587-595*
- ResCSRf: Algorithm to Automatically Extract Cheyne–Stokes Respiration Features From Respiratory Signals. *Javed, F., +, TBME March 2018 669-677*
- Robust Methods for Automated Selection of Cardiac Signals After Blind Source Separation. *Wedekind, D., +, TBME Oct. 2018 2248-2258*
- Robust Nonlinear Causality Analysis of Nonstationary Multivariate Physiological Time Series. *Schack, T., +, TBME June 2018 1213-1225*
- Robust Real-Time Musculoskeletal Modeling Driven by Electromyograms. *Durandau, G., +, TBME March 2018 556-564*
- Tensor Decomposition of Gait Dynamics in Parkinson's Disease. *Pham, T.D., +, TBME Aug. 2018 1820-1827*
- Three-Dimensional Noninvasive Imaging of Ventricular Arrhythmias in Patients With Premature Ventricular Contractions. *Yu, L., +, TBME July 2018 1495-1503*
- Time-Dependent Behavior of Microvascular Blood Flow and Oxygenation: A Predictor of Functional Outcomes. *Kuliga, K.Z., +, TBME May 2018 1049-1056*
- Time-Varying Time–Frequency Complexity Measures for Epileptic EEG Data Analysis. *Colominas, M.A., +, TBME Aug. 2018 1681-1688*
- TR-BREATH: Time-Reversal Breathing Rate Estimation and Detection. *Chen, C., +, TBME March 2018 489-501*
- Transfer Learning: A Riemannian Geometry Framework With Applications to Brain–Computer Interfaces. *Zanini, P., +, TBME May 2018 1107-1116*
- Translational Motion Tracking of Leg Joints for Enhanced Prediction of Walking Tasks. *Stolyarov, R., +, TBME April 2018 763-769*
- Two-Wire Bus Combining Full Duplex Body-Sensor Network and Multilead Biopotential Measurements. *Rapin, M., +, TBME Jan. 2018 113-122*
- Understanding Irregularity Characteristics of Short-Term HRV Signals Using Sample Entropy Profile. *Udhayakumar, R.K., +, TBME Nov. 2018 2569-2579*
- User-Independent Intent Recognition for Lower Limb Prostheses Using Depth Sensing. *Massalin, Y., +, TBME Aug. 2018 1759-1770*
- Using Machine Learning and a Combination of Respiratory Flow, Laryngeal Motion, and Swallowing Sounds to Classify Safe and Unsafe Swallowing. *Inoue, K., +, TBME Nov. 2018 2529-2541*
- Viscosity Prediction in a Physiologically Controlled Ventricular Assist Device. *Petrou, A., +, TBME Oct. 2018 2355-2364*
- WaveDec: A Wavelet Approach to Identify Both Shared and Individual Patterns of Copy-Number Variations. *Cai, H., +, TBME Feb. 2018 353-364*
- Medical treatment**
- Is EMG a Viable Alternative to BCI for Detecting Movement Intention in Severe Stroke?. *Balasubramanian, S., +, TBME Dec. 2018 2790-2797*
- Prediction of Hemorrhagic Transformation Severity in Acute Stroke From Source Perfusion MRI. *Yu, Y., +, TBME Sept. 2018 2058-2065*
- Membranes**
- A Three-Dimensional Arrayed Microfluidic Blood–Brain Barrier Model With Integrated Electrical Sensor Array. *Jeong, S., +, TBME Feb. 2018 431-439*
- Mesh generation**
- A Centerline-Based Model Morphing Algorithm for Patient-Specific Finite Element Modeling of the Left Ventricle. *Behdadfar, S., +, TBME June 2018 1391-1398*
- Orbit Segmentation by Surface Reconstruction With Automatic Sliced Vertex Screening. *Hsung, T., +, TBME April 2018 828-838*
- Microelectrodes**
- Placing Sites on the Edge of Planar Silicon Microelectrodes Enhances Chronic Recording Functionality. *Lee, H.C., +, TBME June 2018 1245-1255*
- Microfluidics**
- A High-Resolution Minimicroscope System for Wireless Real-Time Monitoring. *Wang, Z., +, TBME July 2018 1524-1531*
- A Three-Dimensional Arrayed Microfluidic Blood–Brain Barrier Model With Integrated Electrical Sensor Array. *Jeong, S., +, TBME Feb. 2018 431-439*
- Mechanical Imaging of Soft Tissues With a Highly Compliant Tactile Sensing Array. *Li, B., +, TBME March 2018 687-697*
- Micromagnetics**
- Micromagnetic Stimulation of the Mouse Auditory Cortex *In Vivo* Using an Implantable Solenoid System. *Minusa, S., +, TBME June 2018 1301-1310*

Micromanipulators

Visual Servoed Three-Dimensional Rotation Control in Zebrafish Larva Heart Microinjection System. *Zhuang, S.*, +, *TBME Jan. 2018 64-73*

Microorganisms

Closed-Loop Control for Precision Antimicrobial Delivery: An *In Silico* Proof-of-Concept. *Herrero, P.*, +, *TBME Oct. 2018 2231-2236*

Pathogen Detection Using Frequency Domain Fluorescent Lifetime Measurements. *Yahav, G.*, +, *TBME Dec. 2018 2731-2741*

Microwaves

In-Ear Audio Wearable: Measurement of Heart and Breathing Rates for Health and Safety Monitoring. *Martin, A.*, +, *TBME June 2018 1256-1263*

Pressure in the Cochlea During Infrared Irradiation. *Xia, N.*, +, *TBME July 2018 1575-1584*

Microsensors

A Three-Dimensional Arrayed Microfluidic Blood-Brain Barrier Model With Integrated Electrical Sensor Array. *Jeong, S.*, +, *TBME Feb. 2018 431-439*

Mechanical Imaging of Soft Tissues With a Highly Compliant Tactile Sensing Array. *Li, B.*, +, *TBME March 2018 687-697*

Microstrip lines

A 750-MHz Electronically Tunable Resonator Using Microstrip Line Couplers for Electron Paramagnetic Resonance Imaging of a Mouse Tumor-Bearing Leg. *Amida, T.*, +, *TBME May 2018 1124-1132*

Microwave antennas

A Time-Reversal Imaging System for Breast Screening: Theory and Initial Phantom Results. *Yousefina, M.*, +, *TBME Nov. 2018 2542-2551*

Microwave circuits

A 750-MHz Electronically Tunable Resonator Using Microstrip Line Couplers for Electron Paramagnetic Resonance Imaging of a Mouse Tumor-Bearing Leg. *Amida, T.*, +, *TBME May 2018 1124-1132*

Microwave detectors

Noninvasive *In-Situ* Measurement of Blood Lactate Using Microwave Sensors. *Mason, A.*, +, *TBME March 2018 698-705*

Microwave imaging

A Time-Reversal Imaging System for Breast Screening: Theory and Initial Phantom Results. *Yousefina, M.*, +, *TBME Nov. 2018 2542-2551*

Microwave Breast Imaging: Clinical Advances and Remaining Challenges. *O Loughlin, D.*, +, *TBME Nov. 2018 2580-2590*

Optimization of the Working Conditions for Magnetic Nanoparticle-Enhanced Microwave Diagnostics of Breast Cancer. *Bellizzi, G.*, +, *TBME July 2018 1607-1616*

Real-Time Three-Dimensional Microwave Monitoring of Interstitial Thermal Therapy. *Chen, G.*, +, *TBME March 2018 528-538*

Microwave resonators

A 750-MHz Electronically Tunable Resonator Using Microstrip Line Couplers for Electron Paramagnetic Resonance Imaging of a Mouse Tumor-Bearing Leg. *Amida, T.*, +, *TBME May 2018 1124-1132*

Molecular biophysics

Molecularly Imprinted Polymer-Based Electrochemical Biosensor for Bone Loss Detection. *Afsarimanesh, N.*, +, *TBME June 2018 1264-1271*

Single-Scan High-Resolution 2-D J-Resolved Spectroscopy in Inhomogeneous Magnetic Fields. *Wang, K.*, +, *TBME Feb. 2018 440-448*

Time-Dependent Behavior of Microvascular Blood Flow and Oxygenation: A Predictor of Functional Outcomes. *Kuliga, K.Z.*, +, *TBME May 2018 1049-1056*

Type-1 Diabetes Patient Decision Simulator for *In Silico* Testing Safety and Effectiveness of Insulin Treatments. *Vettoretti, M.*, +, *TBME June 2018 1281-1290*

Monte Carlo methods

Information-Theoretic Approach and Fundamental Limits of Resolving Two Closely Timed Neuronal Spikes in Mouse Brain Calcium Imaging. *Soltanian-Zadeh, S.*, +, *TBME Nov. 2018 2428-2439*

Uncertainty in Limb Configuration Makes Minimal Contribution to Errors Between Observed and Predicted Forces in a Musculoskeletal Model of the Rat Hindlimb. *Wei, Q.*, +, *TBME Feb. 2018 469-476*

Motion compensation

A Hybrid Image Registration and Matching Framework for Real-Time Motion Tracking in MRI-Guided Radiotherapy. *Seregni, M.*, +, *TBME Jan. 2018 131-139*

Motion control

Multi-Imager Compatible, MR Safe, Remote Center of Motion Needle-Guide Robot. *Stoianovici, D.*, +, *TBME Jan. 2018 165-177*

Optimal Mixed Tracking/Impedance Control With Application to Transfemoral Prostheses With Energy Regeneration. *Khademi, G.*, +, *TBME April 2018 894-910*

Simulation of Constrained Musculoskeletal Systems in Task Space. *Stanev, D.*, +, *TBME Feb. 2018 307-318*

Motion tracking

Cardiac Motion Evolution Model for Analysis of Functional Changes Using Tensor Decomposition and Cross-Sectional Data. *McLeod, K.*, +, *TBME Dec. 2018 2769-2780*

Moving average processes

N-Point Moving Average: A Special Generalized Transfer Function Method for Estimation of Central Aortic Blood Pressure. *Xiao, H.*, +, *TBME June 2018 1226-1234*

Multiphoton processes

Three-Dimensional Segmentation of the *Ex-Vivo* Anterior Lamina Cribrosa From Second-Harmonic Imaging Microscopy. *Ram, S.*, +, *TBME July 2018 1617-1629*

Muscle

An Interactive Simulator for Imposing Virtual Musculoskeletal Dynamics. *Hasson, C.J.*, *TBME March 2018 539-549*

Effects of Ablation (Radio Frequency, Cryo, Microwave) on Physiologic Properties of the Human Vastus Lateralis. *Singal, A.*, +, *TBME Oct. 2018 2202-2209*

Force Closure Mechanism Modeling for Musculoskeletal Multibody Simulation. *Geier, A.*, +, *TBME Nov. 2018 2471-2482*

GriFT: A Device for Quantifying Physiological and Pathological Mirror Movements in Children. *Jaspers, E.*, +, *TBME April 2018 857-865*

Identification of Ion Currents Components Generating Field Potential Recorded in MEA From hiPSC-CM. *Raphel, F.*, +, *TBME June 2018 1311-1319*

Influence of Shoulder Kinematic Estimate on Joint and Muscle Mechanics Predicted by Musculoskeletal Model. *Blache, Y.*, +, *TBME April 2018 715-722*

Modeling of Electroporation Induced by Pulsed Electric Fields in Irregularly Shaped Cells. *Mescia, L.*, +, *TBME Feb. 2018 414-423*

Modeling of Stretch Reflex Activation Considering Muscle Type. *Kang, M.J.*, +, *TBME May 2018 980-988*

Simulation of Constrained Musculoskeletal Systems in Task Space. *Stanev, D.*, +, *TBME Feb. 2018 307-318*

Stimulation Efficiency With Decaying Exponential Waveforms in a Wirelessly Powered Switched-Capacitor Discharge Stimulation System. *Lee, H.*, +, *TBME May 2018 1095-1106*

Uncertainty in Limb Configuration Makes Minimal Contribution to Errors Between Observed and Predicted Forces in a Musculoskeletal Model of the Rat Hindlimb. *Wei, Q.*, +, *TBME Feb. 2018 469-476*

Muscles

Is EMG a Viable Alternative to BCI for Detecting Movement Intention in Severe Stroke?. *Balasubramanian, S.*, +, *TBME Dec. 2018 2790-2797*

N**Nanomagnetics**

Optimization of the Working Conditions for Magnetic Nanoparticle-Enhanced Microwave Diagnostics of Breast Cancer. *Bellizzi, G.*, +, *TBME July 2018 1607-1616*

Nanomedicine

Enhancement of Intercellular Electrical Synchronization by Conductive Materials in Cardiac Tissue Engineering. *Wu, Y.*, +, *TBME Feb. 2018 264-272*

Nanoparticles

Magnetomotive Displacement of the Tympanic Membrane Using Magnetic Nanoparticles: Toward Enhancement of Sound Perception. *Huang, P.*, +, *TBME Dec. 2018 2837-2846*

Optimization of the Working Conditions for Magnetic Nanoparticle-Enhanced Microwave Diagnostics of Breast Cancer. *Bellizzi, G.*, +, *TBME July 2018 1607-1616*

Nearest neighbour methods

Identification of Ultrasonic Echolucent Carotid Plaques Using Discrete Fréchet Distance Between Bimodal Gamma Distributions. *Huang, X.*, +, *TBME May 2018 949-955*

Needles

Characterization of Nonlinearity and Dispersion in Tissue Impedance During High-Frequency Electroporation. *Bhonsle, S.*, +, *TBME Oct. 2018 2190-2201*

MRI-Guided Robotically Assisted Focal Laser Ablation of the Prostate Using Canine Cadavers. *Chen, Y.*, +, *TBME July 2018 1434-1442*

Multi-Imager Compatible, MR Safe, Remote Center of Motion Needle-Guide Robot. *Stoianovici, D.*, +, *TBME Jan. 2018 165-177*

- Real-Time Error Control for Surgical Simulation. *Bui, H.P.*, +, *TBME March 2018 596-607*
- Semiautomatic Radiofrequency Ablation Planning Based on Constrained Clustering Process for Hepatic Tumors. *Chen, R.*, +, *TBME March 2018 645-657*
- Neural network architecture**
- Heart Sound Segmentation—An Event Detection Approach Using Deep Recurrent Neural Networks. *Messner, E.*, +, *TBME Sept. 2018 1964-1974*
- Neural networks**
- A Cascaded Deep Convolutional Neural Network for Joint Segmentation and Genotype Prediction of Brainstem Gliomas. *Liu, J.*, +, *TBME Sept. 2018 1943-1952*
- Brain MR Image Restoration Using an Automatic Trilateral Filter With GPU-Based Acceleration. *Chang, H.*, +, *TBME Feb. 2018 400-413*
- Feature-Based Representation Improves Color Decomposition and Nuclear Detection Using a Convolutional Neural Network. *Khoshdeli, M.*, +, *TBME March 2018 625-634*
- Information-Theoretic Approach and Fundamental Limits of Resolving Two Closely Timed Neuronal Spikes in Mouse Brain Calcium Imaging. *Soltanian-Zadeh, S.*, +, *TBME Nov. 2018 2428-2439*
- Micromagnetic Stimulation of the Mouse Auditory Cortex *In Vivo* Using an Implantable Solenoid System. *Minusa, S.*, +, *TBME June 2018 1301-1310*
- Noninvasive *In-Situ* Measurement of Blood Lactate Using Microwave Sensors. *Mason, A.*, +, *TBME March 2018 698-705*
- Towards Improved Design and Evaluation of Epileptic Seizure Predictors. *Korshunova, I.*, +, *TBME March 2018 502-510*
- Neuromuscular stimulation**
- Stimulation Efficiency With Decaying Exponential Waveforms in a Wirelessly Powered Switched-Capacitor Discharge Stimulation System. *Lee, H.*, +, *TBME May 2018 1095-1106*
- The ICVSIE: A General Purpose Integral Equation Method for Bio-Electromagnetic Analysis. *Gomez, L.J.*, +, *TBME March 2018 565-574*
- Neurons**
- Distortion Distribution of Neural Spike Train Sequence Matching With Optogenetics. *Noel, A.*, +, *TBME Dec. 2018 2814-2826*
- Neurophysiology**
- In Vivo* Superresolution Imaging of Neuronal Structure in the Mouse Brain. *Urban, B.E.*, +, *TBME Jan. 2018 232-238*
- A Brain-Computer Interface Based on Miniature-Event-Related Potentials Induced by Very Small Lateral Visual Stimuli. *Xu, M.*, +, *TBME May 2018 1166-1175*
- A Comparison of Intention Estimation Methods for Decoder Calibration in Intracortical Brain-Computer Interfaces. *Willett, F.R.*, +, *TBME Sept. 2018 2066-2078*
- A Functional-Genetic Scheme for Seizure Forecasting in Canine Epilepsy. *Bou Assi, E.*, +, *TBME June 2018 1339-1348*
- A Machine Learning Approach to Automated Gait Analysis for the Noldus Catwalk System. *Frohlich, H.*, +, *TBME May 2018 1133-1139*
- A Novel Approach for Real-Time Recognition of Epileptic Seizures Using Minimum Variance Modified Fuzzy Entropy. *Raghu, S.*, +, *TBME Nov. 2018 2612-2621*
- A Three-Dimensional Arrayed Microfluidic Blood-Brain Barrier Model With Integrated Electrical Sensor Array. *Jeong, S.*, +, *TBME Feb. 2018 431-439*
- Acoustical Emission Analysis by Unsupervised Graph Mining: A Novel Biomarker of Knee Health Status. *Hersek, S.*, +, *TBME June 2018 1291-1300*
- Adaptive Estimation of the Neural Activation Extent in Computational Volume Conductor Models of Deep Brain Stimulation. *Schmidt, C.*, +, *TBME Aug. 2018 1828-1839*
- Adaptive Sparse Multiple Canonical Correlation Analysis With Application to Imaging (Epi)Genomics Study of Schizophrenia. *Hu, W.*, +, *TBME Feb. 2018 390-399*
- An MRI-Compatible Hydrodynamic Simulator of Cerebrospinal Fluid Motion in the Cervical Spine. *Thyagaraj, S.*, +, *TBME July 2018 1516-1523*
- Brain MR Image Restoration Using an Automatic Trilateral Filter With GPU-Based Acceleration. *Chang, H.*, +, *TBME Feb. 2018 400-413*
- Classification of Pre-Clinical Seizure States Using Scalp EEG Cross-Frequency Coupling Features. *Jacobs, D.*, +, *TBME Nov. 2018 2440-2449*
- Closed-Loop Vagus Nerve Stimulation Based on State Transition Models. *Romero-Ugalde, H.M.*, +, *TBME July 2018 1630-1638*
- Consistency of Long-Term Subdural Electrooculography in Humans. *Nurse, E.S.*, +, *TBME Feb. 2018 344-352*
- Continuous Assessment of Levodopa Response in Parkinson's Disease Using Wearable Motion Sensors. *Pulliam, C.L.*, +, *TBME Jan. 2018 159-164*
- Decoding Covert Somatosensory Attention by a BCI System Calibrated With Tactile Sensation. *Yao, L.*, +, *TBME Aug. 2018 1689-1695*
- Developing a Nonstationary Computational Framework With Application to Modeling Dynamic Modulations in Neural Spiking Responses. *Akbarian, A.*, +, *TBME Feb. 2018 241-253*
- Dual Temporal and Spatial Sparse Representation for Inferring Group-Wise Brain Networks From Resting-State fMRI Dataset. *Gong, J.*, +, *TBME May 2018 1035-1048*
- Ear-EEG-Based Objective Hearing Threshold Estimation Evaluated on Normal Hearing Subjects. *Christensen, C.B.*, +, *TBME May 2018 1026-1034*
- Effect of Tissue Heterogeneity on the Transmembrane Potential of Type-1 Spiral Ganglion Neurons: A Simulation Study. *Sriperumbudur, K.K.*, +, *TBME March 2018 658-668*
- Electromagnetic Brain Source Imaging by Means of a Robust Minimum Variance Beamformer. *Hossein Hosseini, S.A.*, +, *TBME Oct. 2018 2365-2374*
- Electrophysiological Muscle Classification Using Multiple Instance Learning and Unsupervised Time and Spectral Domain Analysis. *Kamali, T.*, +, *TBME Nov. 2018 2494-2502*
- Electrothermal Equivalent Three-Dimensional Finite-Element Model of a Single Neuron. *Cinelli, I.*, +, *TBME June 2018 1373-1381*
- Epidermal Electrode Technology for Detecting Ultrasonic Perturbation of Sensory Brain Activity. *Huang, S.*, +, *TBME June 2018 1272-1280*
- Epileptic Seizure Detection in Long-Term EEG Recordings by Using Wavelet-Based Directed Transfer Function. *Wang, D.*, +, *TBME Nov. 2018 2591-2599*
- Euler Elastica Regularized Logistic Regression for Whole-Brain Decoding of fMRI Data. *Zhang, C.*, +, *TBME July 2018 1639-1653*
- Evaluation of an Integrated System of Wearable Physiological Sensors for Stress Monitoring in Working Environments by Using Biological Markers. *Betti, S.*, +, *TBME Aug. 2018 1748-1758*
- Extracorporeal Stimulation of Sacral Nerve Roots for Observation of Pelvic Autonomic Nerve Integrity: Description of a Novel Methodological Setup. *Moszkowski, T.*, +, *TBME March 2018 550-555*
- Feasibility of Automatic Error Detect-and-Undo System in Human Intracortical Brain-Computer Interfaces. *Even-Chen, N.*, +, *TBME Aug. 2018 1771-1784*
- GriFT: A Device for Quantifying Physiological and Pathological Mirror Movements in Children. *Jaspers, E.*, +, *TBME April 2018 857-865*
- Highly Accurate Facial Nerve Segmentation Refinement From CBCT/CT Imaging Using a Super-Resolution Classification Approach. *Lu, P.*, +, *TBME Jan. 2018 178-188*
- Hypoperfusion Induced by Preconditioning Treadmill Training in Hyper-Early Reperfusion After Cerebral Ischemia: A Laser Speckle Imaging Study. *He, Z.*, +, *TBME Jan. 2018 219-223*
- Identification of Ion Currents Components Generating Field Potential Recorded in MEA From hiPSC-CM. *Raphel, F.*, +, *TBME June 2018 1311-1319*
- Impedance Measures During *in vitro* Cochlear Implantation Predict Array Positioning. *Giardina, C.K.*, +, *TBME Feb. 2018 327-335*
- Information-Theoretic Approach and Fundamental Limits of Resolving Two Closely Timed Neuronal Spikes in Mouse Brain Calcium Imaging. *Soltanian-Zadeh, S.*, +, *TBME Nov. 2018 2428-2439*
- Learning Based Segmentation of CT Brain Images: Application to Postoperative Hydrocephalic Scans. *Cherukuri, V.*, +, *TBME Aug. 2018 1871-1884*
- Low-to-High Cross-Frequency Coupling in the Electrical Rhythms as Biomarker for Hyperexcitable Neuroglial Networks of the Brain. *Grigorenko, V.*, +, *TBME July 2018 1504-1515*
- Micromagnetic Stimulation of the Mouse Auditory Cortex *In Vivo* Using an Implantable Solenoid System. *Minusa, S.*, +, *TBME June 2018 1301-1310*
- Model-Based Analysis of Electrode Placement and Pulse Amplitude for Hippocampal Stimulation. *Bingham, C.S.*, +, *TBME Oct. 2018 2278-2289*
- Modeling of Stretch Reflex Activation Considering Muscle Type. *Kang, M.J.*, +, *TBME May 2018 980-988*
- Near-Field Inductive-Coupling Link to Power a Three-Dimensional Millimeter-Size Antenna for Brain Implantable Medical Devices. *Manoufali, M.*, +, *TBME Jan. 2018 4-14*
- Orbit Segmentation by Surface Reconstruction With Automatic Sliced Vertex Screening. *Hsung, T.*, +, *TBME April 2018 828-838*
- Placing Sites on the Edge of Planar Silicon Microelectrodes Enhances Chronic Recording Functionality. *Lee, H.C.*, +, *TBME June 2018 1245-1255*
- Pressure in the Cochlea During Infrared Irradiation. *Xia, N.*, +, *TBME July 2018 1575-1584*

- Quantitative Testing of fMRI-Compatibility of an Electrically Active Mechatronic Device for Robot-Assisted Sensorimotor Protocols. *Farrens, A.J.*, +, *TBME July 2018 1595-1606*
- Reducing the Computational Complexity of EEG Source Localization With Cortical Patch Decomposition and Optimal Electrode Selection. *Safavi, S.M.*, +, *TBME Oct. 2018 2298-2310*
- Robust Nonlinear Causality Analysis of Nonstationary Multivariate Physiological Time Series. *Schack, T.*, +, *TBME June 2018 1213-1225*
- Robust Real-Time Musculoskeletal Modeling Driven by Electromyograms. *Durandau, G.*, +, *TBME March 2018 556-564*
- Screening for Cognitive Impairment by Model-Assisted Cerebral Blood Flow Estimation. *Lassila, T.*, +, *TBME July 2018 1654-1661*
- Simple, Transparent, and Flexible Automated Quality Assessment Procedures for Ambulatory Electrodermal Activity Data. *Kleckner, I.R.*, +, *TBME July 2018 1460-1467*
- Temporal Dynamics Assessment of Spatial Overlap Pattern of Functional Brain Networks Reveals Novel Functional Architecture of Cerebral Cortex. *Jiang, X.*, +, *TBME June 2018 1183-1192*
- Tensor Decomposition of Gait Dynamics in Parkinson's Disease. *Pham, T.D.*, +, *TBME Aug. 2018 1820-1827*
- Three-Dimensional Brain-Computer Interface Control Through Simultaneous Overt Spatial Attentional and Motor Imagery Tasks. *Meng, J.*, +, *TBME Nov. 2018 2417-2427*
- Time-Dependent Behavior of Microvascular Blood Flow and Oxygenation: A Predictor of Functional Outcomes. *Kuliga, K.Z.*, +, *TBME May 2018 1049-1056*
- Time-Varying Time-Frequency Complexity Measures for Epileptic EEG Data Analysis. *Colominas, M.A.*, +, *TBME Aug. 2018 1681-1688*
- Topological Properties of the Structural Brain Network in Autism via -Neighbor Method. *Lee, M.*, +, *TBME Oct. 2018 2323-2333*
- Towards Improved Design and Evaluation of Epileptic Seizure Predictors. *Korshunova, I.*, +, *TBME March 2018 502-510*
- Tractography-Based Score for Learning Effective Connectivity From Multimodal Imaging Data Using Dynamic Bayesian Networks. *Dang, S.*, +, *TBME May 2018 1057-1068*
- Visual Limit-Push Training Alters Movement Variability. *Hajissa, E.*, +, *TBME Oct. 2018 2162-2167*
- Noise**
- Reducing Sensor Noise in MEG and EEG Recordings Using Oversampled Temporal Projection. *Larson, E.*, +, *TBME May 2018 1002-1013*
- Nondestructive testing**
- Conductivity Anisotropy Influence on Acoustic Sources for Magnetoacoustic Tomography With Magnetic Induction. *Yu, Z.*, +, *TBME Nov. 2018 2512-2518*
- Nonlinear acoustics**
- Full Modeling of High-Intensity Focused Ultrasound and Thermal Heating in the Kidney Using Realistic Patient Models. *Suomi, V.*, +, *TBME May 2018 969-979*
- Nonlinear dynamical systems**
- Sleep-Dependent Directional Coupling of Cardiorespiratory System in Patients With Obstructive Sleep Apnea. *Yoon, H.*, +, *TBME Dec. 2018 2847-2854*
- Nonlinear filters**
- A Novel Short-Term Event Extraction Algorithm for Biomedical Signals. *Yazdani, S.*, +, *TBME April 2018 754-762*
- Numerical analysis**
- Conductivity Anisotropy Influence on Acoustic Sources for Magnetoacoustic Tomography With Magnetic Induction. *Yu, Z.*, +, *TBME Nov. 2018 2512-2518*
- Micromagnetic Stimulation of the Mouse Auditory Cortex *In Vivo* Using an Implantable Solenoid System. *Minusa, S.*, +, *TBME June 2018 1301-1310*
- Modeling of Electroporation Induced by Pulsed Electric Fields in Irregularly Shaped Cells. *Mescia, L.*, +, *TBME Feb. 2018 414-423*
- Numerical models**
- An Optimization-Based Algorithm for the Construction of Cardiac Purkinje Network Models. *Ulysses, J.N.*, +, *TBME Dec. 2018 2760-2768*
- O**
- Obstetrics**
- Dedicated Entropy Measures for Early Assessment of Pregnancy Progression From Single-Channel Electrohysterography. *Mischi, M.*, +, *TBME April 2018 875-884*
- Spatially Resolved MR-Compatible Doppler Ultrasound: Proof of Concept for Triggering of Diagnostic Quality Cardiovascular MRI for Function and Flow Quantification at 3T. *Crowe, L.A.*, +, *TBME Feb. 2018 294-306*
- Open systems**
- Interoperable End-to-End Remote Patient Monitoring Platform Based on IEEE 11073 PHD and ZigBee Health Care Profile. *Clarke, M.*, +, *TBME May 2018 1014-1025*
- Optical coherence tomography**
- Magnetomotive Displacement of the Tympanic Membrane Using Magnetic Nanoparticles: Toward Enhancement of Sound Perception. *Huang, P.*, +, *TBME Dec. 2018 2837-2846*
- Optical fibers**
- Pressure in the Cochlea During Infrared Irradiation. *Xia, N.*, +, *TBME July 2018 1575-1584*
- Optical microscopes**
- A High-Resolution Minimicroscope System for Wireless Real-Time Monitoring. *Wang, Z.*, +, *TBME July 2018 1524-1531*
- Optical microscopy**
- In Vivo* Superresolution Imaging of Neuronal Structure in the Mouse Brain. *Urban, B.E.*, +, *TBME Jan. 2018 232-238*
- Feature-Based Representation Improves Color Decomposition and Nuclear Detection Using a Convolutional Neural Network. *Khoshdeli, M.*, +, *TBME March 2018 625-634*
- Super-Resolution Axial Localization of Ultrasound Scatter Using Multi-Focal Imaging. *Diamantis, K.*, +, *TBME Aug. 2018 1840-1851*
- Three-Dimensional Segmentation of the *Ex-Vivo* Anterior Lamina Cribrosa From Second-Harmonic Imaging Microscopy. *Ram, S.*, +, *TBME July 2018 1617-1629*
- Optical sensors**
- Sparse Ultrasound Image Reconstruction From a Shape-Sensing Single-Element Forward-Looking Catheter. *Janjic, J.*, +, *TBME Oct. 2018 2210-2218*
- Optical tomography**
- Automatic Subretinal Fluid Segmentation of Retinal SD-OCT Images With Neurosensory Retinal Detachment Guided by Enface Fundus Imaging. *Wu, M.*, +, *TBME Jan. 2018 87-95*
- Coded-Aperture Compressed Sensing X-Ray Luminescence Tomography. *Tzoumas, S.*, +, *TBME Aug. 2018 1892-1895*
- Fully Automated Segmentation of Fluid/Cyst Regions in Optical Coherence Tomography Images With Diabetic Macular Edema Using Neurosophic Sets and Graph Algorithms. *Rashno, A.*, +, *TBME May 2018 989-1001*
- Monitoring Acute Stroke in Mouse Model Using Laser Speckle Imaging-Guided Visible-Light Optical Coherence Tomography. *Liu, Q.*, +, *TBME Oct. 2018 2136-2142*
- Three-Dimensional Segmentation of the *Ex-Vivo* Anterior Lamina Cribrosa From Second-Harmonic Imaging Microscopy. *Ram, S.*, +, *TBME July 2018 1617-1629*
- Optical tracking**
- A Methodology for Non-Invasive 3-D Surveillance of Arteriovenous Fistulae Using Freehand Ultrasound. *Colley, E.*, +, *TBME Aug. 2018 1885-1891*
- Optical variables measurement**
- Broadband Vibration Detection in Tissue Phantoms Using a Fiber Fabry-Perot Cavity. *Barnes, J.*, +, *TBME April 2018 921-927*
- Optimization**
- Extremum Seeking Control for Personalized Zone Adaptation in Model Predictive Control for Type 1 Diabetes. *Cao, Z.*, +, *TBME Aug. 2018 1859-1870*
- Fast and Stable Signal Deconvolution via Compressible State-Space Models. *Kazempour, A.*, +, *TBME Jan. 2018 74-86*
- Matched Filtering for Heart Rate Estimation on Compressive Sensing ECG Measurements. *Da Poian, G.*, +, *TBME June 2018 1349-1358*
- Optimization-Based Image Reconstruction From Low-Count, List-Mode TOF-PET Data. *Zhang, Z.*, +, *TBME April 2018 936-946*
- Organic compounds**
- Single-Scan High-Resolution 2-D J-Resolved Spectroscopy in Inhomogeneous Magnetic Fields. *Wang, K.*, +, *TBME Feb. 2018 440-448*
- Orthopedics**
- Minimizing the Translation Error in the Application of an Oblique Single-Cut Rotation Osteotomy: Where to Cut?. *Dobbe, J.G.G.*, +, *TBME April 2018 821-827*
- Procedure-Specific Validation of Artificial Vertebrae. *Hollensteiner, M.*, +, *TBME Aug. 2018 1852-1858*
- Robust Real-Time Musculoskeletal Modeling Driven by Electromyograms. *Durandau, G.*, +, *TBME March 2018 556-564*

Oscillations

Low-to-High Cross-Frequency Coupling in the Electrical Rhythms as Biomarker for Hyperexcitable Neuroglial Networks of the Brain. *Grigorevsky, V.*, +, *TBME July 2018 1504-1515*

Oximetry

Real-Time Automatic Apneic Event Detection Using Nocturnal Pulse Oximetry. *Jung, D.W.*, +, *TBME March 2018 706-712*

ResCSRF: Algorithm to Automatically Extract Cheyne–Stokes Respiration Features From Respiratory Signals. *Javed, F.*, +, *TBME March 2018 669-677*

Robust Nonlinear Causality Analysis of Nonstationary Multivariate Physiological Time Series. *Schack, T.*, +, *TBME June 2018 1213-1225*

P**Pacemakers**

A Parametric Computational Model of the Action Potential of Pacemaker Cells. *Ai, W.*, +, *TBME Jan. 2018 123-130*

Endocardial Energy Harvesting by Electromagnetic Induction. *Zurbuchen, A.*, +, *TBME Feb. 2018 424-430*

RF Channel Modeling for Implant-to-Implant Communication and Implant to Subcutaneous Implant Communication for Future Leadless Cardiac Pacemakers. *Bose, P.*, +, *TBME Dec. 2018 2798-2807*

Parallel processing

Brain MR Image Restoration Using an Automatic Trilateral Filter With GPU-Based Acceleration. *Chang, H.*, +, *TBME Feb. 2018 400-413*

Deep Residual Learning for Accelerated MRI Using Magnitude and Phase Networks. *Lee, D.*, +, *TBME Sept. 2018 1985-1995*

Parameter estimation

An Ambulatory Gait Monitoring System with Activity Classification and Gait Parameter Calculation Based on a Single Foot Inertial Sensor. *Song, M.*, +, *TBME April 2018 885-893*

Automated *In Vivo* Sub-Hertz Analysis of Viscoelasticity (SAVE) for Evaluation of Breast Lesions. *Bayat, M.*, +, *TBME Oct. 2018 2237-2247*

Fusing Partial Camera Signals for Noncontact Pulse Rate Variability Measurement. *McDuff, D.J.*, +, *TBME Aug. 2018 1725-1739*

Pareto optimization

Optimal Mixed Tracking/Impedance Control With Application to Transfemoral Prostheses With Energy Regeneration. *Khademi, G.*, +, *TBME April 2018 894-910*

Particle filtering (numerical methods)

PARHELLA: Particle Filter-Based Heart Rate Estimation From Photoplethysmographic Signals During Physical Exercise. *Fujita, Y.*, +, *TBME Jan. 2018 189-198*

Pathogens

Pathogen Detection Using Frequency Domain Fluorescent Lifetime Measurements. *Yahav, G.*, +, *TBME Dec. 2018 2731-2741*

Patient care

Generalisability of a Virtual Trials Method for Glycaemic Control in Intensive Care. *Dickson, J.L.*, +, *TBME July 2018 1543-1553*

Personalized Risk Scoring for Critical Care Prognosis Using Mixtures of Gaussian Processes. *Alaa, A.M.*, +, *TBME Jan. 2018 207-218*

Patient diagnosis

A Fiber Bragg Grating Sensor for Radial Artery Pulse Waveform Measurement. *Jia, D.*, +, *TBME April 2018 839-846*

A Procedure for the Automatic Analysis of High-Resolution Manometry Data to Support the Clinical Diagnosis of Esophageal Motility Disorders. *Friego, A.*, +, *TBME July 2018 1476-1485*

A Regularized Deep Learning Approach for Clinical Risk Prediction of Acute Coronary Syndrome Using Electronic Health Records. *Huang, Z.*, +, *TBME May 2018 956-968*

Continuous Assessment of Levodopa Response in Parkinson's Disease Using Wearable Motion Sensors. *Pulliam, C.L.*, +, *TBME Jan. 2018 159-164*

Modeling Touch and Palpation Using Autoregressive Models. *Lauffer, S.*, +, *TBME July 2018 1585-1594*

Personalized Risk Scoring for Critical Care Prognosis Using Mixtures of Gaussian Processes. *Alaa, A.M.*, +, *TBME Jan. 2018 207-218*

Stochastic Modeling of Temporal Enhanced Ultrasound: Impact of Temporal Properties on Prostate Cancer Characterization. *Nahlawi, L.*, +, *TBME Aug. 2018 1798-1809*

Patient monitoring

Automatic Early-Onset Free Flap Failure Detection for Implantable Biomedical Devices. *Rothfuss, M.A.*, +, *TBME Oct. 2018 2290-2297*

Ballistocardiogram-Based Approach to Cuffless Blood Pressure Monitoring: Proof of Concept and Potential Challenges. *Kim, C.*, +, *TBME Nov. 2018 2384-2391*

Cardio-Pulmonary Stethoscope: Clinical Validation With Heart Failure and Hemodialysis Patients. *Iskander, M.F.*, +, *TBME May 2018 1176-1180*

Computerized Lung Sound Screening for Pediatric Auscultation in Noisy Field Environments. *Emmanouilidou, D.*, +, *TBME July 2018 1564-1574*

Consistency of Long-Term Subdural Electrooculography in Humans. *Nurse, E.S.*, +, *TBME Feb. 2018 344-352*

Continuous Assessment of Levodopa Response in Parkinson's Disease Using Wearable Motion Sensors. *Pulliam, C.L.*, +, *TBME Jan. 2018 159-164*

Dedicated Entropy Measures for Early Assessment of Pregnancy Progression From Single-Channel Electrohysterography. *Mischi, M.*, +, *TBME April 2018 875-884*

Depth-Based Whole Body Photoplethysmography in Remote Pulmonary Function Testing. *Soleimani, V.*, +, *TBME June 2018 1421-1431*

Electrocardiogram Signal Quality Assessment Based on Structural Image Similarity Metric. *Shahriari, Y.*, +, *TBME April 2018 745-753*

Evaluation of an Integrated System of Wearable Physiological Sensors for Stress Monitoring in Working Environments by Using Biological Markers. *Betti, S.*, +, *TBME Aug. 2018 1748-1758*

Extracorporeal Stimulation of Sacral Nerve Roots for Observation of Pelvic Autonomic Nerve Integrity: Description of a Novel Methodological Setup. *Moszkowski, T.*, +, *TBME March 2018 550-555*

Extremum Seeking Control for Personalized Zone Adaptation in Model Predictive Control for Type 1 Diabetes. *Cao, Z.*, +, *TBME Aug. 2018 1859-1870*

In-Ear Audio Wearable: Measurement of Heart and Breathing Rates for Health and Safety Monitoring. *Martin, A.*, +, *TBME June 2018 1256-1263*

Interoperable End-to-End Remote Patient Monitoring Platform Based on IEEE 11073 PHD and ZigBee Health Care Profile. *Clarke, M.*, +, *TBME May 2018 1014-1025*

Monitoring Acute Stroke in Mouse Model Using Laser Speckle Imaging-Guided Visible-Light Optical Coherence Tomography. *Liu, Q.*, +, *TBME Oct. 2018 2136-2142*

Multiple Instance Dictionary Learning for Beat-to-Beat Heart Rate Monitoring From Ballistocardiograms. *Jiao, C.*, +, *TBME Nov. 2018 2634-2648*

Noninvasive *In-Situ* Measurement of Blood Lactate Using Microwave Sensors. *Mason, A.*, +, *TBME March 2018 698-705*

Passive Wearable Skin Patch Sensor Measures Limb Hemodynamics Based on Electromagnetic Resonance. *Cluff, K.*, +, *TBME April 2018 847-856*

Personalized Risk Scoring for Critical Care Prognosis Using Mixtures of Gaussian Processes. *Alaa, A.M.*, +, *TBME Jan. 2018 207-218*

Real-Time Automatic Apneic Event Detection Using Nocturnal Pulse Oximetry. *Jung, D.W.*, +, *TBME March 2018 706-712*

Real-Time Blood Pressure Estimation From Force-Measured Ultrasound. *Zakrzewski, A.M.*, +, *TBME Nov. 2018 2405-2416*

Real-Time Three-Dimensional Microwave Monitoring of Interstitial Thermal Therapy. *Chen, G.*, +, *TBME March 2018 528-538*

Reduction of Blood Glucose Measurements to Calibrate Subcutaneous Glucose Sensors: A Bayesian Multiday Framework. *Acciaroli, G.*, +, *TBME March 2018 587-595*

ResCSRF: Algorithm to Automatically Extract Cheyne–Stokes Respiration Features From Respiratory Signals. *Javed, F.*, +, *TBME March 2018 669-677*

Robust Methods for Automated Selection of Cardiac Signals After Blind Source Separation. *Wedekind, D.*, +, *TBME Oct. 2018 2248-2258*

Robust Nonlinear Causality Analysis of Nonstationary Multivariate Physiological Time Series. *Schack, T.*, +, *TBME June 2018 1213-1225*

Screening for Cognitive Impairment by Model-Assisted Cerebral Blood Flow Estimation. *Lassila, T.*, +, *TBME July 2018 1654-1661*

Toward Ubiquitous Blood Pressure Monitoring via Pulse Transit Time: Predictions on Maximum Calibration Period and Acceptable Error Limits. *Mukkamala, R.*, +, *TBME June 2018 1410-1420*

TR-BREATH: Time-Reversal Breathing Rate Estimation and Detection. *Chen, C.*, +, *TBME March 2018 489-501*

Two-Wire Bus Combining Full Duplex Body-Sensor Network and Multilead Biopotential Measurements. *Rapin, M.*, +, *TBME Jan. 2018 113-122*

Type-1 Diabetes Patient Decision Simulator for *In Silico* Testing Safety and Effectiveness of Insulin Treatments. *Vettoretti, M.*, +, *TBME June 2018 1281-1290*

Using Machine Learning and a Combination of Respiratory Flow, Laryngeal Motion, and Swallowing Sounds to Classify Safe and Unsafe Swallowing. *Inoue, K.*, +, *TBME Nov. 2018 2529-2541*

Viscosity Prediction in a Physiologically Controlled Ventricular Assist Device. *Petrou, A.*, +, *TBME Oct. 2018 2355-2364*

Patient rehabilitation

Acoustical Emission Analysis by Unsupervised Graph Mining: A Novel Biomarker of Knee Health Status. *Hersek, S.*, +, *TBME June 2018 1291-1300*

An Interactive Simulator for Imposing Virtual Musculoskeletal Dynamics. *Hasson, C.J.*, *TBME March 2018 539-549*

Metabolic Effects Induced by a Kinematically Compatible Hip Exoskeleton During STS. *Junius, K.*, +, *TBME June 2018 1399-1409*

Tensor Decomposition of Gait Dynamics in Parkinson's Disease. *Pham, T.D.*, +, *TBME Aug. 2018 1820-1827*

User-Independent Intent Recognition for Lower Limb Prostheses Using Depth Sensing. *Massalin, Y.*, +, *TBME Aug. 2018 1759-1770*

Visual Limit-Push Training Alters Movement Variability. *Hajissa, E.*, +, *TBME Oct. 2018 2162-2167*

Patient treatment

A Model for Estimating the Blood Flow of the POLVAD Pulsatile Ventricular Assist Device. *Siewnicka, A.*, +, *TBME Nov. 2018 2552-2559*

Acoustical Emission Analysis by Unsupervised Graph Mining: A Novel Biomarker of Knee Health Status. *Hersek, S.*, +, *TBME June 2018 1291-1300*

Cardio-Pulmonary Stethoscope: Clinical Validation With Heart Failure and Hemodialysis Patients. *Iskander, M.F.*, +, *TBME May 2018 1176-1180*

Characterization of Conductivity Changes During High-Frequency Irreversible Electroporation for Treatment Planning. *Zhao, Y.*, +, *TBME Aug. 2018 1810-1819*

Characterization of Nonlinearity and Dispersion in Tissue Impedance During High-Frequency Electroporation. *Bhonsle, S.*, +, *TBME Oct. 2018 2190-2201*

Closed-Loop Vagus Nerve Stimulation Based on State Transition Models. *Romero-Ugalde, H.M.*, +, *TBME July 2018 1630-1638*

Extremum Seeking Control for Personalized Zone Adaptation in Model Predictive Control for Type 1 Diabetes. *Cao, Z.*, +, *TBME Aug. 2018 1859-1870*

Real-Time Three-Dimensional Microwave Monitoring of Interstitial Thermal Therapy. *Chen, G.*, +, *TBME March 2018 528-538*

The HF-CGM Study: An Analysis of Cardiogoniometric Axes in Patients With Cardiac Resynchronization Therapy. *Brown, O.I.*, +, *TBME Aug. 2018 1711-1716*

Time-Varying Time-Frequency Complexity Measures for Epileptic EEG Data Analysis. *Colominas, M.A.*, +, *TBME Aug. 2018 1681-1688*

Type-1 Diabetes Patient Decision Simulator for In Silico Testing Safety and Effectiveness of Insulin Treatments. *Vettoretti, M.*, +, *TBME June 2018 1281-1290*

Ultra-Wideband Millimeter-Wave Dielectric Characteristics of Freshly Excised Normal and Malignant Human Skin Tissues. *Mirbeik-Sabzevari, A.*, +, *TBME June 2018 1320-1329*

Pattern classification

A Machine Learning Approach to Automated Gait Analysis for the Noldus Catwalk System. *Frohlich, H.*, +, *TBME May 2018 1133-1139*

Automatic Early-Onset Free Flap Failure Detection for Implantable Biomedical Devices. *Rothfuss, M.A.*, +, *TBME Oct. 2018 2290-2297*

Methods for Improved Discrimination Between Ventricular Fibrillation and Tachycardia. *Alwan, Y.*, +, *TBME Oct. 2018 2143-2151*

Turn Intent Detection For Control of a Lower Limb Prosthesis. *Pew, C.*, +, *TBME April 2018 789-796*

User-Independent Intent Recognition for Lower Limb Prostheses Using Depth Sensing. *Massalin, Y.*, +, *TBME Aug. 2018 1759-1770*

Pattern clustering

Electrophysiological Muscle Classification Using Multiple Instance Learning and Unsupervised Time and Spectral Domain Analysis. *Kamali, T.*, +, *TBME Nov. 2018 2494-2502*

Spatial Evidential Clustering With Adaptive Distance Metric for Tumor Segmentation in FDG-PET Images. *Lian, C.*, +, *TBME Jan. 2018 21-30*

Pattern matching

A Brain-Computer Interface Based on Miniature-Event-Related Potentials Induced by Very Small Lateral Visual Stimuli. *Xu, M.*, +, *TBME May 2018 1166-1175*

Pattern recognition

Limb Position Tolerant Pattern Recognition for Myoelectric Prosthesis Control with Adaptive Sparse Representations From Extreme Learning. *Bethausser, J.L.*, +, *TBME April 2018 770-778*

Translational Motion Tracking of Leg Joints for Enhanced Prediction of Walking Tasks. *Stolyarov, R.*, +, *TBME April 2018 763-769*

Pedestrians

A Novel Accelerometer-Based Technique for Robust Detection of Walking Direction. *Shaikh, M.F.*, +, *TBME Aug. 2018 1740-1747*

Pediatrics

A Lumped Parameter Model to Study Atrioventricular Valve Regurgitation in Stage 1 and Changes Across Stage 2 Surgery in Single Ventricle Patients. *Pant, S.*, +, *TBME Nov. 2018 2450-2458*

Computerized Lung Sound Screening for Pediatric Auscultation in Noisy Field Environments. *Emmanouilidou, D.*, +, *TBME July 2018 1564-1574*

GriFT: A Device for Quantifying Physiological and Pathological Mirror Movements in Children. *Jaspers, E.*, +, *TBME April 2018 857-865*

Magnet-Assisted Hydraulic Bougienage for Correction of Long-Gap Esophageal Atresia. *Noh, M.*, +, *TBME Oct. 2018 2178-2189*

Pendulums

Modeling of Stretch Reflex Activation Considering Muscle Type. *Kang, M.J.*, +, *TBME May 2018 980-988*

Permeability

A Three-Dimensional Arrayed Microfluidic Blood-Brain Barrier Model With Integrated Electrical Sensor Array. *Jeong, S.*, +, *TBME Feb. 2018 431-439*

Permittivity

A Time-Reversal Imaging System for Breast Screening: Theory and Initial Phantom Results. *Yousefina, M.*, +, *TBME Nov. 2018 2542-2551*

Adaptive Estimation of the Neural Activation Extent in Computational Volume Conductor Models of Deep Brain Stimulation. *Schmidt, C.*, +, *TBME Aug. 2018 1828-1839*

Dielectric Properties of *Ex Vivo* Porcine Liver Tissue Characterized at Frequencies Between 5 and 500 kHz When Heated at Different Rates. *Deas Yero, D.*, +, *TBME Nov. 2018 2560-2568*

Modeling of Electroporation Induced by Pulsed Electric Fields in Irregularly Shaped Cells. *Mescia, L.*, +, *TBME Feb. 2018 414-423*

The ICVSIE: A General Purpose Integral Equation Method for Bio-Electromagnetic Analysis. *Gomez, L.J.*, +, *TBME March 2018 565-574*

Ultra-Wideband Millimeter-Wave Dielectric Characteristics of Freshly Excised Normal and Malignant Human Skin Tissues. *Mirbeik-Sabzevari, A.*, +, *TBME June 2018 1320-1329*

PH measurement

A Smart Capsule With a Hydrogel-Based pH-Triggered Release Switch for GI-Tract Site-Specific Drug Delivery. *Jiang, H.*, +, *TBME Dec. 2018 2808-2813*

Phantoms

A Time-Reversal Imaging System for Breast Screening: Theory and Initial Phantom Results. *Yousefina, M.*, +, *TBME Nov. 2018 2542-2551*

An Adjustable-Length Dipole Using Forced-Current Excitation for 7T MR. *Cui, J.*, +, *TBME Oct. 2018 2259-2266*

Broadband Vibration Detection in Tissue Phantoms Using a Fiber Fabry-Perot Cavity. *Barnes, J.*, +, *TBME April 2018 921-927*

Curved-Array-Based Multispectral Photoacoustic Imaging of Human Finger Joints. *Huang, N.*, +, *TBME July 2018 1452-1459*

Fabrication and Performance of a Miniaturized and Integrated Endoscope Ultrasound Convex Array for Digestive Tract Imaging. *Peng, J.*, +, *TBME Jan. 2018 140-148*

Magneto-acousto-electrical Measurement Based Electrical Conductivity Reconstruction for Tissues. *Zhou, Y.*, +, *TBME May 2018 1086-1094*

MRI-Guided Robotically Assisted Focal Laser Ablation of the Prostate Using Canine Cadavers. *Chen, Y.*, +, *TBME July 2018 1434-1442*

Optimization-Based Image Reconstruction From Low-Count, List-Mode TOF-PET Data. *Zhang, Z.*, +, *TBME April 2018 936-946*

Passive Wearable Skin Patch Sensor Measures Limb Hemodynamics Based on Electromagnetic Resonance. *Cluff, K.*, +, *TBME April 2018 847-856*

Sparse Ultrasound Image Reconstruction From a Shape-Sensing Single-Element Forward-Looking Catheter. *Janjic, J.*, +, *TBME Oct. 2018 2210-2218*

Unambiguous Identification and Visualization of an Acoustically Active Catheter by Ultrasound Imaging in Real Time: Theory, Algorithm, and Phantom Experiments. *Kumar, V.*, +, *TBME July 2018 1468-1475*

Using Microbubble as Contrast Agent for High-Energy X-Ray In-line Phase Contrast Imaging: Demonstration and Comparison Study. *Wu, D.*, +, *TBME May 2018 1117-1123*

Phase modulation

Pathogen Detection Using Frequency Domain Fluorescent Lifetime Measurements. *Yahav, G.*, +, *TBME Dec. 2018 2731-2741*

Photoacoustic effect

Curved-Array-Based Multispectral Photoacoustic Imaging of Human Finger Joints. *Huang, N.*, +, *TBME July 2018 1452-1459*

- Double-Stage Delay Multiply and Sum Beamforming Algorithm: Application to Linear-Array Photoacoustic Imaging. *Mozaffarzadeh, M.*, +, *TBME Jan. 2018 31-42*
- Photoplethysmography**
- A Novel Short-Term Event Extraction Algorithm for Biomedical Signals. *Yazdani, S.*, +, *TBME April 2018 754-762*
- Bi-Modal Arterial Compliance Probe for Calibration-Free Cuffless Blood Pressure Estimation. *P M, N.*, +, *TBME Nov. 2018 2392-2404*
- Depth-Based Whole Body Photoplethysmography in Remote Pulmonary Function Testing. *Soleimani, V.*, +, *TBME June 2018 1421-1431*
- Fusing Partial Camera Signals for Noncontact Pulse Rate Variability Measurement. *McDuff, D.J.*, +, *TBME Aug. 2018 1725-1739*
- PARHELIA: Particle Filter-Based Heart Rate Estimation From Photoplethysmographic Signals During Physical Exercise. *Fujita, Y.*, +, *TBME Jan. 2018 189-198*
- Physiological models**
- A Centerline-Based Model Morphing Algorithm for Patient-Specific Finite Element Modeling of the Left Ventricle. *Behdadfar, S.*, +, *TBME June 2018 1391-1398*
- A Lumped Parameter Model to Study Atrioventricular Valve Regurgitation in Stage 1 and Changes Across Stage 2 Surgery in Single Ventricle Patients. *Pant, S.*, +, *TBME Nov. 2018 2450-2458*
- A Time-Varying Nonparametric Methodology for Assessing Changes in QT Variability Unrelated to Heart Rate Variability. *Orini, M.*, +, *TBME July 2018 1443-1451*
- An Interactive Simulator for Imposing Virtual Musculoskeletal Dynamics. *Hasson, C.J.*, *TBME March 2018 539-549*
- Aortic Pressure Estimation Using Blind Identification Approach on Single Input Multiple Output Nonlinear Wiener Systems. *Patel, A.M.*, +, *TBME June 2018 1193-1200*
- Characterization of Nonlinearity and Dispersion in Tissue Impedance During High-Frequency Electroporation. *Bhonsle, S.*, +, *TBME Oct. 2018 2190-2201*
- Closed-Loop Lumped Parameter Modeling of Hemodynamics During Cirrhogenesis in Rats. *Audebert, C.*, +, *TBME Oct. 2018 2311-2322*
- Dual Temporal and Spatial Sparse Representation for Inferring Group-Wise Brain Networks From Resting-State fMRI Dataset. *Gong, J.*, +, *TBME May 2018 1035-1048*
- Electrothermal Equivalent Three-Dimensional Finite-Element Model of a Single Neuron. *Cinelli, I.*, +, *TBME June 2018 1373-1381*
- Force Closure Mechanism Modeling for Musculoskeletal Multibody Simulation. *Geier, A.*, +, *TBME Nov. 2018 2471-2482*
- Full Modeling of High-Intensity Focused Ultrasound and Thermal Heating in the Kidney Using Realistic Patient Models. *Suomi, V.*, +, *TBME Nov. 2018 2660-2670*
- Generalisability of a Virtual Trials Method for Glycaemic Control in Intensive Care. *Dickson, J.L.*, +, *TBME July 2018 1543-1553*
- Identification of Ion Currents Components Generating Field Potential Recorded in MEA From hiPSC-CM. *Raphel, F.*, +, *TBME June 2018 1311-1319*
- Influence of Shoulder Kinematic Estimate on Joint and Muscle Mechanics Predicted by Musculoskeletal Model. *Blache, Y.*, +, *TBME April 2018 715-722*
- Model-Based Analysis of Electrode Placement and Pulse Amplitude for Hippocampal Stimulation. *Bingham, C.S.*, +, *TBME Oct. 2018 2278-2289*
- N-Point Moving Average: A Special Generalized Transfer Function Method for Estimation of Central Aortic Blood Pressure. *Xiao, H.*, +, *TBME June 2018 1226-1234*
- On the Feasibility of Automated Mechanical Ventilation Control Through EIT. *Tregidgo, H.F.J.*, +, *TBME Nov. 2018 2459-2470*
- Orbit Segmentation by Surface Reconstruction With Automatic Sliced Vertex Screening. *Hsung, T.*, +, *TBME April 2018 828-838*
- Sequential Therapeutic Response Modeling for Tumor Treatment Using Computational Hybrid Control Systems Approach. *Oduola, W.O.*, +, *TBME April 2018 866-874*
- Viscosity Prediction in a Physiologically Controlled Ventricular Assist Device. *Petrou, A.*, +, *TBME Oct. 2018 2355-2364*
- Physiology**
- Detecting Vascular Age Using the Analysis of Peripheral Pulse. *Sorelli, M.*, +, *TBME Dec. 2018 2742-2750*
- Evaluation of an Integrated System of Wearable Physiological Sensors for Stress Monitoring in Working Environments by Using Biological Markers. *Betti, S.*, +, *TBME Aug. 2018 1748-1758*
- PI control**
- Closed-Loop Vagus Nerve Stimulation Based on State Transition Models. *Romero-Ugalde, H.M.*, +, *TBME July 2018 1630-1638*
- Piecewise linear techniques**
- A Comparison of Intention Estimation Methods for Decoder Calibration in Intracortical Brain-Computer Interfaces. *Willett, F.R.*, +, *TBME Sept. 2018 2066-2078*
- Robust Nonlinear Causality Analysis of Nonstationary Multivariate Physiological Time Series. *Schack, T.*, +, *TBME June 2018 1213-1225*
- Piezoelectric transducers**
- Curved-Array-Based Multispectral Photoacoustic Imaging of Human Finger Joints. *Huang, N.*, +, *TBME July 2018 1452-1459*
- Piezoelectricity**
- Electromechanical Coupling Factor of Breast Tissue as a Biomarker for Breast Cancer. *Park, K.*, +, *TBME Jan. 2018 96-103*
- Electrothermal Equivalent Three-Dimensional Finite-Element Model of a Single Neuron. *Cinelli, I.*, +, *TBME June 2018 1373-1381*
- Pistons**
- Magnet-Assisted Hydraulic Bougienage for Correction of Long-Gap Esophageal Atresia. *Noh, M.*, +, *TBME Oct. 2018 2178-2189*
- Plasmas**
- Modeling Subcutaneous Absorption of Fast-Acting Insulin in Type 1 Diabetes. *Schiavon, M.*, +, *TBME Sept. 2018 2079-2086*
- Pneumodynamics**
- Automated Detection of Postictal Generalized EEG Suppression. *Theeranaew, W.*, +, *TBME Feb. 2018 371-377*
- Cardio-Pulmonary Stethoscope: Clinical Validation With Heart Failure and Hemodialysis Patients. *Iskander, M.F.*, +, *TBME May 2018 1176-1180*
- Depth-Based Whole Body Photoplethysmography in Remote Pulmonary Function Testing. *Soleimani, V.*, +, *TBME June 2018 1421-1431*
- In-Ear Audio Wearable: Measurement of Heart and Breathing Rates for Health and Safety Monitoring. *Martin, A.*, +, *TBME June 2018 1256-1263*
- Instantaneous Transfer Entropy for the Study of Cardiovascular and Cardiorespiratory Nonstationary Dynamics. *Valenza, G.*, +, *TBME May 2018 1077-1085*
- On the Feasibility of Automated Mechanical Ventilation Control Through EIT. *Tregidgo, H.F.J.*, +, *TBME Nov. 2018 2459-2470*
- Real-Time Automatic Apneic Event Detection Using Nocturnal Pulse Oximetry. *Jung, D.W.*, +, *TBME March 2018 706-712*
- ResCSRf: Algorithm to Automatically Extract Cheyne-Stokes Respiration Features From Respiratory Signals. *Javed, F.*, +, *TBME March 2018 669-677*
- Time-Dependent Behavior of Microvascular Blood Flow and Oxygenation: A Predictor of Functional Outcomes. *Kuliga, K.Z.*, +, *TBME May 2018 1049-1056*
- TR-BREATH: Time-Reversal Breathing Rate Estimation and Detection. *Chen, C.*, +, *TBME March 2018 489-501*
- Using Machine Learning and a Combination of Respiratory Flow, Laryngeal Motion, and Swallowing Sounds to Classify Safe and Unsafe Swallowing. *Inoue, K.*, +, *TBME Nov. 2018 2529-2541*
- Polymers**
- A Three-Dimensional Arrayed Microfluidic Blood-Brain Barrier Model With Integrated Electrical Sensor Array. *Jeong, S.*, +, *TBME Feb. 2018 431-439*
- Molecularly Imprinted Polymer-Based Electrochemical Biosensor for Bone Loss Detection. *Afsarimanesh, N.*, +, *TBME June 2018 1264-1271*
- Using Microbubble as Contrast Agent for High-Energy X-Ray In-line Phase Contrast Imaging: Demonstration and Comparison Study. *Wu, D.*, +, *TBME May 2018 1117-1123*
- Porosity**
- From Cell to Tissue Properties—Modeling Skin Electroporation With Pore and Local Transport Region Formation. *Dermol-Cerne, J.*, +, *TBME Feb. 2018 458-468*
- Position control**
- Optimal Mixed Tracking/Impedance Control With Application to Transfemoral Prostheses With Energy Regeneration. *Khademi, G.*, +, *TBME April 2018 894-910*
- Position measurement**
- Spatial Position Measurement System for Surgical Navigation Using 3-D Image Marker-Based Tracking Tools With Compact Volume. *Fan, Z.*, +, *TBME Feb. 2018 378-389*
- Positron emission tomography**
- Optimization-Based Image Reconstruction From Low-Count, List-Mode TOF-PET Data. *Zhang, Z.*, +, *TBME April 2018 936-946*
- Spatial Evidential Clustering With Adaptive Distance Metric for Tumor Segmentation in FDG-PET Images. *Lian, C.*, +, *TBME Jan. 2018 21-30*

Potassium

Low-to-High Cross-Frequency Coupling in the Electrical Rhythms as Biomarker for Hyperexcitable Neuroglial Networks of the Brain. *Grigorenko, V.*, +, *TBME July 2018 1504-1515*

Predictive control

Event-Triggered Model Predictive Control for Embedded Artificial Pancreas Systems. *Chakrabarty, A.*, +, *TBME March 2018 575-586*

Extremum Seeking Control for Personalized Zone Adaptation in Model Predictive Control for Type 1 Diabetes. *Cao, Z.*, +, *TBME Aug. 2018 1859-1870*

Model Free iPID Control for Glycemia Regulation of Type-1 Diabetes. *MohammadRidha, T.*, +, *TBME Jan. 2018 199-206*

Pressure measurement

Magnet-Assisted Hydraulic Bougienage for Correction of Long-Gap Esophageal Atresia. *Noh, M.*, +, *TBME Oct. 2018 2178-2189*

Noninvasive Blood Pressure Estimation Using Ultrasound and Simple Finite Element Models. *Zakrzewski, A.M.*, +, *TBME Sept. 2018 2011-2022*

Numerical Model Reduction for the Prediction of Interface Pressure Applied by Compression Bandages on the Lower Leg. *Chassagne, F.*, +, *TBME Feb. 2018 449-457*

Pressure in the Cochlea During Infrared Irradiation. *Xia, N.*, +, *TBME July 2018 1575-1584*

Pressure sensors

Real-Time Visualization and Analysis of Clinicians' Performance During Palpation in Physical Examinations. *Granados, A.*, +, *TBME Sept. 2018 2042-2051*

Principal component analysis

Time-Varying Time-Frequency Complexity Measures for Epileptic EEG Data Analysis. *Colominas, M.A.*, +, *TBME Aug. 2018 1681-1688*

Probability

Instantaneous Transfer Entropy for the Study of Cardiovascular and Cardiorespiratory Nonstationary Dynamics. *Valenza, G.*, +, *TBME May 2018 1077-1085*

Modeling, Detecting, and Tracking Freezing of Gait in Parkinson Disease Using Inertial Sensors. *Prateek, G.V.*, +, *TBME Oct. 2018 2152-2161*

Mortality Prediction in Severe Congestive Heart Failure Patients With Multifractal Point-Process Modeling of Heartbeat Dynamics. *Valenza, G.*, +, *TBME Oct. 2018 2345-2354*

Robust Multicontrast MRI Spleen Segmentation for Splenomegaly Using Multi-Atlas Segmentation. *Huo, Y.*, +, *TBME Feb. 2018 336-343*

Uncertainty-Aware Organ Classification for Surgical Data Science Applications in Laparoscopy. *Moccia, S.*, +, *TBME Nov. 2018 2649-2659*

Prosthetic power supplies

Near-Field Inductive-Coupling Link to Power a Three-Dimensional Millimeter-Size Antenna for Brain Implantable Medical Devices. *Manoufali, M.*, +, *TBME Jan. 2018 4-14*

Prosthetics

A Model for Estimating the Blood Flow of the POLVAD Pulsatile Ventricular Assist Device. *Siewnicka, A.*, +, *TBME Nov. 2018 2552-2559*

Automatic Early-Onset Free Flap Failure Detection for Implantable Biomedical Devices. *Rothfuss, M.A.*, +, *TBME Oct. 2018 2290-2297*

Inertial Sensing for Gait Event Detection and Transfemoral Prosthesis Control Strategy. *Ledoux, E.D.*, *TBME Dec. 2018 2704-2712*

Limb Position Tolerant Pattern Recognition for Myoelectric Prosthesis Control with Adaptive Sparse Representations From Extreme Learning. *Bethausser, J.L.*, +, *TBME April 2018 770-778*

Metabolic Effects Induced by a Kinematically Compatible Hip Exoskeleton During STS. *Junius, K.*, +, *TBME June 2018 1399-1409*

Minimizing the Translation Error in the Application of an Oblique Single-Cut Rotation Osteotomy: Where to Cut?. *Dobbe, J.G.G.*, +, *TBME April 2018 821-827*

Near-Field Inductive-Coupling Link to Power a Three-Dimensional Millimeter-Size Antenna for Brain Implantable Medical Devices. *Manoufali, M.*, +, *TBME Jan. 2018 4-14*

Optimal Mixed Tracking/Impedance Control With Application to Transfemoral Prostheses With Energy Regeneration. *Khademi, G.*, +, *TBME April 2018 894-910*

Placing Sites on the Edge of Planar Silicon Microelectrodes Enhances Chronic Recording Functionality. *Lee, H.C.*, +, *TBME June 2018 1245-1255*

Procedure-Specific Validation of Artificial Vertebrae. *Hollensteiner, M.*, +, *TBME Aug. 2018 1852-1858*

Sockets for Limb Prostheses: A Review of Existing Technologies and Open Challenges. *Paterno, L.*, +, *TBME Sept. 2018 1996-2010*

Stimulation Efficiency With Decaying Exponential Waveforms in a Wirelessly Powered Switched-Capacitor Discharge Stimulation System. *Lee, H.*, +, *TBME May 2018 1095-1106*

Translational Motion Tracking of Leg Joints for Enhanced Prediction of Walking Tasks. *Stolyarov, R.*, +, *TBME April 2018 763-769*

Turn Intent Detection For Control of a Lower Limb Prosthesis. *Pew, C.*, +, *TBME April 2018 789-796*

User-Independent Intent Recognition for Lower Limb Prostheses Using Depth Sensing. *Massalin, Y.*, +, *TBME Aug. 2018 1759-1770*

Viscosity Prediction in a Physiologically Controlled Ventricular Assist Device. *Petrou, A.*, +, *TBME Oct. 2018 2355-2364*

Proteins

Electromechanical Coupling Factor of Breast Tissue as a Biomarker for Breast Cancer. *Park, K.*, +, *TBME Jan. 2018 96-103*

Molecularly Imprinted Polymer-Based Electrochemical Biosensor for Bone Loss Detection. *Afsarimanesh, N.*, +, *TBME June 2018 1264-1271*

Type-1 Diabetes Patient Decision Simulator for In Silico Testing Safety and Effectiveness of Insulin Treatments. *Vettoretti, M.*, +, *TBME June 2018 1281-1290*

Protocols

Modeling Subcutaneous Absorption of Fast-Acting Insulin in Type 1 Diabetes. *Schiavon, M.*, +, *TBME Sept. 2018 2079-2086*

Pulsatile flow

A Model for Estimating the Blood Flow of the POLVAD Pulsatile Ventricular Assist Device. *Siewnicka, A.*, +, *TBME Nov. 2018 2552-2559*

Passive Wearable Skin Patch Sensor Measures Limb Hemodynamics Based on Electromagnetic Resonance. *Cluff, K.*, +, *TBME April 2018 847-856*

Pulse measurement

A Fiber Bragg Grating Sensor for Radial Artery Pulse Waveform Measurement. *Jia, D.*, +, *TBME April 2018 839-846*

Detecting Vascular Age Using the Analysis of Peripheral Pulse. *Sorelli, M.*, +, *TBME Dec. 2018 2742-2750*

Pumps

Viscosity Prediction in a Physiologically Controlled Ventricular Assist Device. *Petrou, A.*, +, *TBME Oct. 2018 2355-2364*

Python

Adaptive Estimation of the Neural Activation Extent in Computational Volume Conductor Models of Deep Brain Stimulation. *Schmidt, C.*, +, *TBME Aug. 2018 1828-1839*

R**Radiation therapy**

A Hybrid Image Registration and Matching Framework for Real-Time Motion Tracking in MRI-Guided Radiotherapy. *Seregni, M.*, +, *TBME Jan. 2018 131-139*

An In Vitro and Numerical Study of Moxibustion Therapy on Biological Tissue. *Li, Y.*, +, *TBME April 2018 779-788*

Effects of Ablation (Radio Frequency, Cryo, Microwave) on Physiologic Properties of the Human Vastus Lateralis. *Singal, A.*, +, *TBME Oct. 2018 2202-2209*

Full Modeling of High-Intensity Focused Ultrasound and Thermal Heating in the Kidney Using Realistic Patient Models. *Suomi, V.*, +, *TBME May 2018 969-979*

MRI-Guided Robotically Assisted Focal Laser Ablation of the Prostate Using Canine Cadavers. *Chen, Y.*, +, *TBME July 2018 1434-1442*

Pressure in the Cochlea During Infrared Irradiation. *Xia, N.*, +, *TBME July 2018 1575-1584*

Semiautomatic Radiofrequency Ablation Planning Based on Constrained Clustering Process for Hepatic Tumors. *Chen, R.*, +, *TBME March 2018 645-657*

Treatment of Cancer In Vitro Using Radiation and High-Frequency Bursts of Submicrosecond Electrical Pulses. *Sano, M.B.*, +, *TBME April 2018 928-935*

Radio frequency

RF Channel Modeling for Implant-to-Implant Communication and Implant to Subcutaneous Implant Communication for Future Leadless Cardiac Pacemakers. *Bose, P.*, +, *TBME Dec. 2018 2798-2807*

Radiofrequency heating

Dielectric Properties of *Ex Vivo* Porcine Liver Tissue Characterized at Frequencies Between 5 and 500 kHz When Heated at Different Rates. *Deas Yero, D.*, +, *TBME Nov. 2018 2560-2568*

Semiautomatic Radiofrequency Ablation Planning Based on Constrained Clustering Process for Hepatic Tumors. *Chen, R.*, +, *TBME March 2018 645-657*

Recurrent neural networking

Guest Editorial Special Issue on Deep Learning in Medical Imaging. *Shen, D.*, +, *TBME Sept. 2018 1898-1899*

Recurrent neural networks

Estimating Brain Connectivity With Varying-Length Time Lags Using a Recurrent Neural Network. *Wang, Y.*, +, *TBME Sept. 2018 1953-1963*
Heart Sound Segmentation—An Event Detection Approach Using Deep Recurrent Neural Networks. *Messner, E.*, +, *TBME Sept. 2018 1964-1974*

Regression analysis

Automated Detection of Postictal Generalized EEG Suppression. *Theeranaew, W.*, +, *TBME Feb. 2018 371-377*
Characterization and Modeling of Tissue Thermal Conductivity During an Electrosurgical Joining Process. *Yang, C.*, +, *TBME Feb. 2018 365-370*
Deformable Image Registration Using a Cue-Aware Deep Regression Network. *Cao, X.*, +, *TBME Sept. 2018 1900-1911*
Euler Elastica Regularized Logistic Regression for Whole-Brain Decoding of fMRI Data. *Zhang, C.*, +, *TBME July 2018 1639-1653*
Impedance Measures During in vitro Cochlear Implantation Predict Array Positioning. *Giardina, C.K.*, +, *TBME Feb. 2018 327-335*
Real-Time Automatic Apneic Event Detection Using Nocturnal Pulse Oximetry. *Jung, D.W.*, +, *TBME March 2018 706-712*
Screening for Cognitive Impairment by Model-Assisted Cerebral Blood Flow Estimation. *Lassila, T.*, +, *TBME July 2018 1654-1661*

Respiratory system

Sleep-Dependent Directional Coupling of Cardiorespiratory System in Patients With Obstructive Sleep Apnea. *Yoon, H.*, +, *TBME Dec. 2018 2847-2854*

Retina

Three-Dimensional Model of Electroretinogram Field Potentials in the Rat Eye. *Selner, A.N.*, +, *TBME Dec. 2018 2781-2789*

Risk analysis

A Regularized Deep Learning Approach for Clinical Risk Prediction of Acute Coronary Syndrome Using Electronic Health Records. *Huang, Z.*, +, *TBME May 2018 956-968*
Personalized Risk Scoring for Critical Care Prognosis Using Mixtures of Gaussian Processes. *Alaa, A.M.*, +, *TBME Jan. 2018 207-218*

Robot kinematics

Simulation of Constrained Musculoskeletal Systems in Task Space. *Stanev, D.*, +, *TBME Feb. 2018 307-318*

Robot sensing systems

Is EMG a Viable Alternative to BCI for Detecting Movement Intention in Severe Stroke?. *Balasubramanian, S.*, +, *TBME Dec. 2018 2790-2797*

Robot vision

Visual Limit-Push Training Alters Movement Variability. *Hajissa, E.*, +, *TBME Oct. 2018 2162-2167*
Visual Servoed Three-Dimensional Rotation Control in Zebrafish Larva Heart Microinjection System. *Zhuang, S.*, +, *TBME Jan. 2018 64-73*

Robustness

A Robust Fusion Model for Estimating Respiratory Rate From Photoplethysmography and Electrocardiography. *Birkenkott, D.A.*, +, *TBME Sept. 2018 2033-2041*
Automatic Recognition of fMRI-Derived Functional Networks Using 3-D Convolutional Neural Networks. *Zhao, Y.*, +, *TBME Sept. 2018 1975-1984*

Rodents

Novel Modeling of Somatosensory Evoked Potentials for the Assessment of Spinal Cord Injury. *Mir, H.*, +, *TBME March 2018 511-520*

S**Scalp**

EEG for Current With Two-Dimensional Support. *Dassios, G.*, +, *TBME Sept. 2018 2101-2108*
Focal Onset Seizure Prediction Using Convolutional Networks. *Khan, H.*, +, *TBME Sept. 2018 2109-2118*

Seizure

A Functional-Genetic Scheme for Seizure Forecasting in Canine Epilepsy. *Bou Assi, E.*, +, *TBME June 2018 1339-1348*

Semiconductor lasers

Broadband Vibration Detection in Tissue Phantoms Using a Fiber Fabry-Perot Cavity. *Barnes, J.*, +, *TBME April 2018 921-927*

Sensitivity analysis

Identification of Ultrasonic Echo-lucent Carotid Plaques Using Discrete Fréchet Distance Between Bimodal Gamma Distributions. *Huang, X.*, +, *TBME May 2018 949-955*

Sensor arrays

A Three-Dimensional Arrayed Microfluidic Blood-Brain Barrier Model With Integrated Electrical Sensor Array. *Jeong, S.*, +, *TBME Feb. 2018 431-439*

Sensor fusion

Tensor Decomposition of Gait Dynamics in Parkinson's Disease. *Pham, T.D.*, +, *TBME Aug. 2018 1820-1827*

Sensors

Modeling, Detecting, and Tracking Freezing of Gait in Parkinson Disease Using Inertial Sensors. *Prateek, G.V.*, +, *TBME Oct. 2018 2152-2161*
Using Machine Learning and a Combination of Respiratory Flow, Laryngeal Motion, and Swallowing Sounds to Classify Safe and Unsafe Swallowing. *Inoue, K.*, +, *TBME Nov. 2018 2529-2541*
Visible Illumination Enhanced Nonenzymatic Glucose Photobiosensor Based on TiO₂ Nanorods Decorated With Au Nanoparticles. *Wang, S.*, +, *TBME Sept. 2018 2052-2057*

Servomechanisms

Visual Servoed Three-Dimensional Rotation Control in Zebrafish Larva Heart Microinjection System. *Zhuang, S.*, +, *TBME Jan. 2018 64-73*

Shape recognition

Generalized Adaptive Gaussian Markov Random Field for X-Ray Luminescence Computed Tomography. *Zhang, G.*, +, *TBME Sept. 2018 2130-2133*

Signal classification

A Functional-Genetic Scheme for Seizure Forecasting in Canine Epilepsy. *Bou Assi, E.*, +, *TBME June 2018 1339-1348*
A Novel Approach for Real-Time Recognition of Epileptic Seizures Using Minimum Variance Modified Fuzzy Entropy. *Raghu, S.*, +, *TBME Nov. 2018 2612-2621*
Automated Detection of Postictal Generalized EEG Suppression. *Theeranaew, W.*, +, *TBME Feb. 2018 371-377*
Classification of Pre-Clinical Seizure States Using Scalp EEG Cross-Frequency Coupling Features. *Jacobs, D.*, +, *TBME Nov. 2018 2440-2449*
Computerized Lung Sound Screening for Pediatric Auscultation in Noisy Field Environments. *Emmanouilidou, D.*, +, *TBME July 2018 1564-1574*
Dedicated Entropy Measures for Early Assessment of Pregnancy Progression From Single-Channel Electrohysterography. *Mischi, M.*, +, *TBME April 2018 875-884*
Enhancing Detection of SSVEPs for a High-Speed Brain Speller Using Task-Related Component Analysis. *Nakanishi, M.*, +, *TBME Jan. 2018 104-112*
Evaluation of an Integrated System of Wearable Physiological Sensors for Stress Monitoring in Working Environments by Using Biological Markers. *Betti, S.*, +, *TBME Aug. 2018 1748-1758*
Localization of Origins of Premature Ventricular Contraction by Means of Convolutional Neural Network From 12-Lead ECG. *Yang, T.*, +, *TBME July 2018 1662-1671*
Methods for Improved Discrimination Between Ventricular Fibrillation and Tachycardia. *Alwan, Y.*, +, *TBME Oct. 2018 2143-2151*
Multiclass Classification of Word Imagination Speech With Hybrid Connectivity Features. *Qureshi, M.N.I.*, +, *TBME Oct. 2018 2168-2177*
Muscle Activation and Inertial Motion Data for Noninvasive Classification of Activities of Daily Living. *Totty, M.S.*, +, *TBME May 2018 1069-1076*
Reducing the Computational Complexity of EEG Source Localization With Cortical Patch Decomposition and Optimal Electrode Selection. *Safavi, S.M.*, +, *TBME Oct. 2018 2298-2310*
Time-Varying Time-Frequency Complexity Measures for Epileptic EEG Data Analysis. *Colominas, M.A.*, +, *TBME Aug. 2018 1681-1688*
TR-BREATH: Time-Reversal Breathing Rate Estimation and Detection. *Chen, C.*, +, *TBME March 2018 489-501*
Transfer Learning: A Riemannian Geometry Framework With Applications to Brain-Computer Interfaces. *Zanini, P.*, +, *TBME May 2018 1107-1116*
User-Independent Intent Recognition for Lower Limb Prostheses Using Depth Sensing. *Massalin, Y.*, +, *TBME Aug. 2018 1759-1770*
Using Machine Learning and a Combination of Respiratory Flow, Laryngeal Motion, and Swallowing Sounds to Classify Safe and Unsafe Swallowing. *Inoue, K.*, +, *TBME Nov. 2018 2529-2541*
Computerized Lung Sound Screening for Pediatric Auscultation in Noisy Field Environments. *Emmanouilidou, D.*, +, *TBME July 2018 1564-1574*
PARHELIA: Particle Filter-Based Heart Rate Estimation From Photoplethysmographic Signals During Physical Exercise. *Fujita, Y.*, +, *TBME Jan. 2018 189-198*
Post-Ventricular Premature Contraction Phase Correction Improves the Predictive Value of Average T-Wave Alternans in Ambulatory ECG Recordings. *Martin-Yebra, A.*, +, *TBME March 2018 635-644*

- Reducing Sensor Noise in MEG and EEG Recordings Using Oversampled Temporal Projection. *Larson, E.*, +, *TBME May 2018 1002-1013*
- Reduction of Blood Glucose Measurements to Calibrate Subcutaneous Glucose Sensors: A Bayesian Multiday Framework. *Acciaroli, G.*, +, *TBME March 2018 587-595*
- WaveDec: A Wavelet Approach to Identify Both Shared and Individual Patterns of Copy-Number Variations. *Cai, H.*, +, *TBME Feb. 2018 353-364*
- Signal reconstruction**
- Matched Filtering for Heart Rate Estimation on Compressive Sensing ECG Measurements. *Da Poian, G.*, +, *TBME June 2018 1349-1358*
- Reducing Sensor Noise in MEG and EEG Recordings Using Oversampled Temporal Projection. *Larson, E.*, +, *TBME May 2018 1002-1013*
- Signal resolution**
- Improved Visualization of Gastrointestinal Slow Wave Propagation Using a Novel Wavefront-Oriented Interpolation Technique. *Mayne, T.P.*, +, *TBME Feb. 2018 319-326*
- Microbubble Localization for Three-Dimensional Superresolution Ultrasound Imaging Using Curve Fitting and Deconvolution Methods. *Faroozan, F.*, +, *TBME Dec. 2018 2692-2703*
- Novel Quantitative Analytical Approaches for Rotor Identification and Associated Implications for Mapping. *Annoni, E.M.*, +, *TBME Feb. 2018 273-281*
- Signal sampling**
- Improved Visualization of Gastrointestinal Slow Wave Propagation Using a Novel Wavefront-Oriented Interpolation Technique. *Mayne, T.P.*, +, *TBME Feb. 2018 319-326*
- Low Rank Enhanced Matrix Recovery of Hybrid Time and Frequency Data in Fast Magnetic Resonance Spectroscopy. *Lu, H.*, +, *TBME April 2018 809-820*
- Singular value decomposition**
- Time-Varying Time-Frequency Complexity Measures for Epileptic EEG Data Analysis. *Colominas, M.A.*, +, *TBME Aug. 2018 1681-1688*
- Skin**
- An In Vitro and Numerical Study of Moxibustion Therapy on Biological Tissue. *Li, Y.*, +, *TBME April 2018 779-788*
- From Cell to Tissue Properties—Modeling Skin Electroporation With Pore and Local Transport Region Formation. *Dermol-Cerne, J.*, +, *TBME Feb. 2018 458-468*
- Passive Wearable Skin Patch Sensor Measures Limb Hemodynamics Based on Electromagnetic Resonance. *Cluff, K.*, +, *TBME April 2018 847-856*
- Time-Dependent Behavior of Microvascular Blood Flow and Oxygenation: A Predictor of Functional Outcomes. *Kuliga, K.Z.*, +, *TBME May 2018 1049-1056*
- Ultra-Wideband Millimeter-Wave Dielectric Characteristics of Freshly Excised Normal and Malignant Human Skin Tissues. *Mirbeik-Sabzevari, A.*, +, *TBME June 2018 1320-1329*
- Sleep**
- A State Space and Density Estimation Framework for Sleep Staging in Obstructive Sleep Apnea. *Kang, D.Y.*, +, *TBME June 2018 1201-1212*
- EEG Spectral Coherence Analysis in Nocturnal Epilepsy. *Busonera, G.*, +, *TBME Dec. 2018 2713-2719*
- Real-Time Automatic Apneic Event Detection Using Nocturnal Pulse Oximetry. *Jung, D.W.*, +, *TBME March 2018 706-712*
- ResCSRf: Algorithm to Automatically Extract Cheyne–Stokes Respiration Features From Respiratory Signals. *Javed, F.*, +, *TBME March 2018 669-677*
- Sleep apnea**
- Sleep-Dependent Directional Coupling of Cardiorespiratory System in Patients With Obstructive Sleep Apnea. *Yoon, H.*, +, *TBME Dec. 2018 2847-2854*
- Smart devices**
- A Smart Capsule With a Hydrogel-Based pH-Triggered Release Switch for GI-Tract Site-Specific Drug Delivery. *Jiang, H.*, +, *TBME Dec. 2018 2808-2813*
- Smoothing methods**
- Joint Magnetic Calibration and Localization Based on Expectation Maximization for Tongue Tracking. *Lu, J.*, +, *TBME Jan. 2018 52-63*
- Sociology**
- Automatic Recognition of fMRI-Derived Functional Networks Using 3-D Convolutional Neural Networks. *Zhao, Y.*, +, *TBME Sept. 2018 1975-1984*
- Sockets**
- Sockets for Limb Prostheses: A Review of Existing Technologies and Open Challenges. *Paterno, L.*, +, *TBME Sept. 2018 1996-2010*
- Solid modeling**
- Real-Time Visualization and Analysis of Clinicians' Performance During Palpation in Physical Examinations. *Granados, A.*, +, *TBME Sept. 2018 2042-2051*
- Somatosensory phenomena**
- Epidermal Electrode Technology for Detecting Ultrasonic Perturbation of Sensory Brain Activity. *Huang, S.*, +, *TBME June 2018 1272-1280*
- Sparse matrices**
- Tensor Sparse Representation for 3-D Medical Image Fusion Using Weighted Average Rule. *Yin, H.*, *TBME Nov. 2018 2622-2633*
- Spatial filters**
- Electromagnetic Brain Source Imaging by Means of a Robust Minimum Variance Beamformer. *Hossein Hosseini, S.A.*, +, *TBME Oct. 2018 2365-2374*
- Enhancing Detection of SSVEPs for a High-Speed Brain Speller Using Task-Related Component Analysis. *Nakanishi, M.*, +, *TBME Jan. 2018 104-112*
- Spatial resolution**
- Microbubble Localization for Three-Dimensional Superresolution Ultrasound Imaging Using Curve Fitting and Deconvolution Methods. *Faroozan, F.*, +, *TBME Dec. 2018 2692-2703*
- Spatiotemporal phenomena**
- Arrhythmia Mechanism and Scaling Effect on the Spectral Properties of Electroanatomical Maps With Manifold Harmonics. *Sanroman-Junquera, M.*, +, *TBME April 2018 723-732*
- Automatic Identification of Reentry Mechanisms and Critical Sites During Atrial Tachycardia by Analyzing Areas of Activity. *Oesterlein, T.G.*, +, *TBME Oct. 2018 2334-2344*
- Cardiac Motion Evolution Model for Analysis of Functional Changes Using Tensor Decomposition and Cross-Sectional Data. *McLeod, K.*, +, *TBME Dec. 2018 2769-2780*
- Developing a Nonstationary Computational Framework With Application to Modeling Dynamic Modulations in Neural Spiking Responses. *Akbarian, A.*, +, *TBME Feb. 2018 241-253*
- Special issues and sections**
- Guest Editorial Special Issue on Deep Learning in Medical Imaging. *Shen, D.*, +, *TBME Sept. 2018 1898-1899*
- Speckle**
- Monitoring Acute Stroke in Mouse Model Using Laser Speckle Imaging-Guided Visible-Light Optical Coherence Tomography. *Liu, Q.*, +, *TBME Oct. 2018 2136-2142*
- Spectral analysis**
- Arrhythmia Mechanism and Scaling Effect on the Spectral Properties of Electroanatomical Maps With Manifold Harmonics. *Sanroman-Junquera, M.*, +, *TBME April 2018 723-732*
- Semiblind Spectral Factorization Approach for Magnetic Resonance Spectroscopy Quantification. *Ferdowsi, S.*, +, *TBME Aug. 2018 1717-1724*
- Time-Dependent Behavior of Microvascular Blood Flow and Oxygenation: A Predictor of Functional Outcomes. *Kuliga, K.Z.*, +, *TBME May 2018 1049-1056*
- Spinal cord injury**
- Novel Modeling of Somatosensory Evoked Potentials for the Assessment of Spinal Cord Injury. *Mir, H.*, +, *TBME March 2018 511-520*
- Spiral antennas**
- A Time-Reversal Imaging System for Breast Screening: Theory and Initial Phantom Results. *Yousefina, M.*, +, *TBME Nov. 2018 2542-2551*
- Sport**
- Influence of Shoulder Kinematic Estimate on Joint and Muscle Mechanics Predicted by Musculoskeletal Model. *Blache, Y.*, +, *TBME April 2018 715-722*
- Statistical analysis**
- A Machine Learning Approach to Automated Gait Analysis for the Noldus Catwalk System. *Frohlich, H.*, +, *TBME May 2018 1133-1139*
- A Procedure for the Automatic Analysis of High-Resolution Manometry Data to Support the Clinical Diagnosis of Esophageal Motility Disorders. *Frigo, A.*, +, *TBME July 2018 1476-1485*
- Cardio-Pulmonary Stethoscope: Clinical Validation With Heart Failure and Hemodialysis Patients. *Iskander, M.F.*, +, *TBME May 2018 1176-1180*
- Depth-Based Whole Body Photoplethysmography in Remote Pulmonary Function Testing. *Soleimani, V.*, +, *TBME June 2018 1421-1431*
- EEG-Based Affect and Workload Recognition in a Virtual Driving Environment for ASD Intervention. *Fan, J.*, +, *TBME Jan. 2018 43-51*
- Evaluation of an Integrated System of Wearable Physiological Sensors for Stress Monitoring in Working Environments by Using Biological Markers. *Betti, S.*, +, *TBME Aug. 2018 1748-1758*

- Fusing Partial Camera Signals for Noncontact Pulse Rate Variability Measurement. *McDuff, D.J.*, +, *TBME Aug. 2018 1725-1739*
- Identification of Ultrasonic Echolucent Carotid Plaques Using Discrete Fréchet Distance Between Bimodal Gamma Distributions. *Huang, X.*, +, *TBME May 2018 949-955*
- Passive Wearable Skin Patch Sensor Measures Limb Hemodynamics Based on Electromagnetic Resonance. *Cluff, K.*, +, *TBME April 2018 847-856*
- Stochastic Modeling of Temporal Enhanced Ultrasound: Impact of Temporal Properties on Prostate Cancer Characterization. *Nahlawi, L.*, +, *TBME Aug. 2018 1798-1809*
- Statistics**
- Automatic Recognition of fMRI-Derived Functional Networks Using 3-D Convolutional Neural Networks. *Zhao, Y.*, +, *TBME Sept. 2018 1975-1984*
- Stents**
- A Methodology for Non-Invasive 3-D Surveillance of Arteriovenous Fistulae Using Freehand Ultrasound. *Colley, E.*, +, *TBME Aug. 2018 1885-1891*
- Stepping motors**
- Multi-Imager Compatible, MR Safe, Remote Center of Motion Needle-Guide Robot. *Stoianovici, D.*, +, *TBME Jan. 2018 165-177*
- Stereolithography**
- An MRI-Compatible Hydrodynamic Simulator of Cerebrospinal Fluid Motion in the Cervical Spine. *Thyagaraj, S.*, +, *TBME July 2018 1516-1523*
- Stochastic processes**
- Information-Theoretic Approach and Fundamental Limits of Resolving Two Closely Timed Neuronal Spikes in Mouse Brain Calcium Imaging. *Soltanian-Zadeh, S.*, +, *TBME Nov. 2018 2428-2439*
- Orbit Segmentation by Surface Reconstruction With Automatic Sliced Vertex Screening. *Hsung, T.*, +, *TBME April 2018 828-838*
- Stochastic Modeling of Temporal Enhanced Ultrasound: Impact of Temporal Properties on Prostate Cancer Characterization. *Nahlawi, L.*, +, *TBME Aug. 2018 1798-1809*
- Strain sensors**
- Broadband Vibration Detection in Tissue Phantoms Using a Fiber Fabry–Perot Cavity. *Barnes, J.*, +, *TBME April 2018 921-927*
- Stress**
- Sockets for Limb Prostheses: A Review of Existing Technologies and Open Challenges. *Paterno, L.*, +, *TBME Sept. 2018 1996-2010*
- Substrates**
- Visible Illumination Enhanced Nonenzymatic Glucose Photobiosensor Based on TiO₂ Nanorods Decorated With Au Nanoparticles. *Wang, S.*, +, *TBME Sept. 2018 2052-2057*
- Sugar**
- An Automated System for the Detection and Classification of Retinal Changes Due to Red Lesions in Longitudinal Fundus Images. *Adal, K.M.*, +, *TBME June 2018 1382-1390*
- Event-Triggered Model Predictive Control for Embedded Artificial Pancreas Systems. *Chakrabarty, A.*, +, *TBME March 2018 575-586*
- Extremum Seeking Control for Personalized Zone Adaptation in Model Predictive Control for Type 1 Diabetes. *Cao, Z.*, +, *TBME Aug. 2018 1859-1870*
- Modeling Subcutaneous Absorption of Fast-Acting Insulin in Type 1 Diabetes. *Schiavon, M.*, +, *TBME Sept. 2018 2079-2086*
- Reduction of Blood Glucose Measurements to Calibrate Subcutaneous Glucose Sensors: A Bayesian Multiday Framework. *Acciaroli, G.*, +, *TBME March 2018 587-595*
- Toward a Run-to-Run Adaptive Artificial Pancreas: In Silico Results. *Tofanin, C.*, +, *TBME March 2018 479-488*
- Type-1 Diabetes Patient Decision Simulator for In Silico Testing Safety and Effectiveness of Insulin Treatments. *Vettoretti, M.*, +, *TBME June 2018 1281-1290*
- Visible Illumination Enhanced Nonenzymatic Glucose Photobiosensor Based on TiO₂ Nanorods Decorated With Au Nanoparticles. *Wang, S.*, +, *TBME Sept. 2018 2052-2057*
- Supercapacitors**
- Optimal Mixed Tracking/Impedance Control With Application to Transfemoral Prostheses With Energy Regeneration. *Khademi, G.*, +, *TBME April 2018 894-910*
- Support vector machines**
- A Cascaded Deep Convolutional Neural Network for Joint Segmentation and Genotype Prediction of Brainstem Gliomas. *Liu, J.*, +, *TBME Sept. 2018 1943-1952*
- A Functional-Genetic Scheme for Seizure Forecasting in Canine Epilepsy. *Bou Assi, E.*, +, *TBME June 2018 1339-1348*
- An Automated System for the Detection and Classification of Retinal Changes Due to Red Lesions in Longitudinal Fundus Images. *Adal, K.M.*, +, *TBME June 2018 1382-1390*
- Brain MR Image Restoration Using an Automatic Trilateral Filter With GPU-Based Acceleration. *Chang, H.*, +, *TBME Feb. 2018 400-413*
- Computerized Lung Sound Screening for Pediatric Auscultation in Noisy Field Environments. *Emmanouilidou, D.*, +, *TBME July 2018 1564-1574*
- Detecting Vascular Age Using the Analysis of Peripheral Pulse. *Sorelli, M.*, +, *TBME Dec. 2018 2742-2750*
- Electroencephalogram Based Detection of Deep Sedation in ICU Patients Using Atomic Decomposition. *Nagaraj, S.B.*, +, *TBME Dec. 2018 2684-2691*
- Electrophysiological Muscle Classification Using Multiple Instance Learning and Unsupervised Time and Spectral Domain Analysis. *Kamali, T.*, +, *TBME Nov. 2018 2494-2502*
- Epileptic Seizure Detection in Long-Term EEG Recordings by Using Wavelet-Based Directed Transfer Function. *Wang, D.*, +, *TBME Nov. 2018 2591-2599*
- Evaluation of an Integrated System of Wearable Physiological Sensors for Stress Monitoring in Working Environments by Using Biological Markers. *Betti, S.*, +, *TBME Aug. 2018 1748-1758*
- Mortality Prediction in Severe Congestive Heart Failure Patients With Multifractal Point-Process Modeling of Heartbeat Dynamics. *Valenza, G.*, +, *TBME Oct. 2018 2345-2354*
- Prediction of Hemorrhagic Transformation Severity in Acute Stroke From Source Perfusion MRI. *Yu, Y.*, +, *TBME Sept. 2018 2058-2065*
- Towards Improved Design and Evaluation of Epileptic Seizure Predictors. *Korshunova, I.*, +, *TBME March 2018 502-510*
- Turn Intent Detection For Control of a Lower Limb Prosthesis. *Pew, C.*, +, *TBME April 2018 789-796*
- User-Independent Intent Recognition for Lower Limb Prostheses Using Depth Sensing. *Massalin, Y.*, +, *TBME Aug. 2018 1759-1770*
- Using Machine Learning and a Combination of Respiratory Flow, Laryngeal Motion, and Swallowing Sounds to Classify Safe and Unsafe Swallowing. *Inoue, K.*, +, *TBME Nov. 2018 2529-2541*
- Surface morphology**
- An Optimization-Based Algorithm for the Construction of Cardiac Purkinje Network Models. *Ulysses, J.N.*, +, *TBME Dec. 2018 2760-2768*
- Surface roughness**
- Enhancement of Intercellular Electrical Synchronization by Conductive Materials in Cardiac Tissue Engineering. *Wu, Y.*, +, *TBME Feb. 2018 264-272*
- Surgery**
- Ex Vivo Modeling of Perioperative Air Leaks in Porcine Lungs. *Klassen, C.*, +, *TBME Dec. 2018 2827-2836*
- A Lumped Parameter Model to Study Atrioventricular Valve Regurgitation in Stage 1 and Changes Across Stage 2 Surgery in Single Ventricle Patients. *Pant, S.*, +, *TBME Nov. 2018 2450-2458*
- A Methodology for Non-Invasive 3-D Surveillance of Arteriovenous Fistulae Using Freehand Ultrasound. *Colley, E.*, +, *TBME Aug. 2018 1885-1891*
- A Novel Telemanipulated Robotic Assistant for Surgical Endoscopy: Pre-clinical Application to ESD. *Zorn, L.*, +, *TBME April 2018 797-808*
- Acoustical Emission Analysis by Unsupervised Graph Mining: A Novel Biomarker of Knee Health Status. *Hersek, S.*, +, *TBME June 2018 1291-1300*
- Adaptive Estimation of the Neural Activation Extent in Computational Volume Conductor Models of Deep Brain Stimulation. *Schmidt, C.*, +, *TBME Aug. 2018 1828-1839*
- Analysis of Energy-Based Metrics for Laparoscopic Skills Assessment. *Poursartip, B.*, +, *TBME July 2018 1532-1542*
- Automatic Early-Onset Free Flap Failure Detection for Implantable Biomedical Devices. *Rothfuss, M.A.*, +, *TBME Oct. 2018 2290-2297*
- Cellular Obstruction Clearance in Proximal Ventricular Catheters Using Low-Voltage Joule Heating. *Sane, A.*, +, *TBME Nov. 2018 2503-2511*
- Characterization and Modeling of Tissue Thermal Conductivity During an Electrosurgical Joining Process. *Yang, C.*, +, *TBME Feb. 2018 365-370*
- Design and Development of Surgeon Augmented Endovascular Robotic System. *Sankaran, N.K.*, +, *TBME Nov. 2018 2483-2493*
- eCurves: A Temporal Shape Encoding. *Bernardis, E.*, +, *TBME April 2018 733-744*
- Endocardial Energy Harvesting by Electromagnetic Induction. *Zurbuchen, A.*, +, *TBME Feb. 2018 424-430*
- Extracorporeal Stimulation of Sacral Nerve Roots for Observation of Pelvic Autonomic Nerve Integrity: Description of a Novel Methodological Setup. *Mozzkowski, T.*, +, *TBME March 2018 550-555*
- Learning Based Segmentation of CT Brain Images: Application to Postoperative Hydrocephalic Scans. *Cherukuri, V.*, +, *TBME Aug. 2018 1871-1884*
- Minimizing the Translation Error in the Application of an Oblique Single-Cut Rotation Osteotomy: Where to Cut?. *Dobbe, J.G.G.*, +, *TBME April 2018 821-827*

- MRI-Guided Robotically Assisted Focal Laser Ablation of the Prostate Using Canine Cadavers. *Chen, Y.*, +, *TBME July 2018 1434-1442*
- Multi-Imager Compatible, MR Safe, Remote Center of Motion Needle-Guide Robot. *Stoianovici, D.*, +, *TBME Jan. 2018 165-177*
- Procedure-Specific Validation of Artificial Vertebrae. *Hollensteiner, M.*, +, *TBME Aug. 2018 1852-1858*
- Real-Time Error Control for Surgical Simulation. *Bui, H.P.*, +, *TBME March 2018 596-607*
- Semiautomatic Radiofrequency Ablation Planning Based on Constrained Clustering Process for Hepatic Tumors. *Chen, R.*, +, *TBME March 2018 645-657*
- Spatial Position Measurement System for Surgical Navigation Using 3-D Image Marker-Based Tracking Tools With Compact Volume. *Fan, Z.*, +, *TBME Feb. 2018 378-389*
- Ultra-Wideband Millimeter-Wave Dielectric Characteristics of Freshly Excised Normal and Malignant Human Skin Tissues. *Mirbeik-Sabzevari, A.*, +, *TBME June 2018 1320-1329*
- Uncertainty-Aware Organ Classification for Surgical Data Science Applications in Laparoscopy. *Moccia, S.*, +, *TBME Nov. 2018 2649-2659*
- Suspensions**
- A Method for Collecting Single Cell Suspensions Using an Ultrasonic Pump. *Nakao, M.*, +, *TBME Jan. 2018 224-231*
- Sockets for Limb Prostheses: A Review of Existing Technologies and Open Challenges. *Paterno, L.*, +, *TBME Sept. 2018 1996-2010*
- Using Microbubble as Contrast Agent for High-Energy X-Ray In-line Phase Contrast Imaging: Demonstration and Comparison Study. *Wu, D.*, +, *TBME May 2018 1117-1123*
- Synchronization**
- Enhancement of Intercellular Electrical Synchronization by Conductive Materials in Cardiac Tissue Engineering. *Wu, Y.*, +, *TBME Feb. 2018 264-272*
- Synchronous motors**
- Asynchronous Brain-Computer Interfacing Based on Mixed-Coded Visual Stimuli. *Suefusa, K.*, +, *TBME Sept. 2018 2119-2129*
- T**
- Tactile sensors**
- Mechanical Imaging of Soft Tissues With a Highly Compliant Tactile Sensing Array. *Li, B.*, +, *TBME March 2018 687-697*
- Task analysis**
- Medical Image Synthesis with Deep Convolutional Adversarial Networks. *Nie, D.*, +, *TBME Dec. 2018 2720-2730*
- Real-Time Visualization and Analysis of Clinicians' Performance During Palpation in Physical Examinations. *Granados, A.*, +, *TBME Sept. 2018 2042-2051*
- Telemedicine**
- A Novel Telemanipulated Robotic Assistant for Surgical Endoscopy: Pre-clinical Application to ESD. *Zorn, L.*, +, *TBME April 2018 797-808*
- Depth-Based Whole Body Photoplethysmography in Remote Pulmonary Function Testing. *Soleimani, V.*, +, *TBME June 2018 1421-1431*
- Interoperable End-to-End Remote Patient Monitoring Platform Based on IEEE 11073 PHD and ZigBee Health Care Profile. *Clarke, M.*, +, *TBME May 2018 1014-1025*
- Telerobotics**
- A Novel Telemanipulated Robotic Assistant for Surgical Endoscopy: Pre-clinical Application to ESD. *Zorn, L.*, +, *TBME April 2018 797-808*
- Multi-Imager Compatible, MR Safe, Remote Center of Motion Needle-Guide Robot. *Stoianovici, D.*, +, *TBME Jan. 2018 165-177*
- Temperature distribution**
- An In Vitro and Numerical Study of Moxibustion Therapy on Biological Tissue. *Li, Y.*, +, *TBME April 2018 779-788*
- Cellular Obstruction Clearance in Proximal Ventricular Catheters Using Low-Voltage Joule Heating. *Sane, A.*, +, *TBME Nov. 2018 2503-2511*
- Temperature measurement**
- An In Vitro and Numerical Study of Moxibustion Therapy on Biological Tissue. *Li, Y.*, +, *TBME April 2018 779-788*
- Tensile stress**
- Cardiac Motion Evolution Model for Analysis of Functional Changes Using Tensor Decomposition and Cross-Sectional Data. *McLeod, K.*, +, *TBME Dec. 2018 2769-2780*
- Focal Onset Seizure Prediction Using Convolutional Networks. *Khan, H.*, +, *TBME Sept. 2018 2109-2118*
- Tensors**
- Tensor Decomposition of Gait Dynamics in Parkinson's Disease. *Pham, T.D.*, +, *TBME Aug. 2018 1820-1827*
- Tensor Sparse Representation for 3-D Medical Image Fusion Using Weighted Average Rule. *Yin, H.*, *TBME Nov. 2018 2622-2633*
- Thermal conductivity**
- Characterization and Modeling of Tissue Thermal Conductivity During an Electrosurgical Joining Process. *Yang, C.*, +, *TBME Feb. 2018 365-370*
- Thermal expansion**
- Electrothermal Equivalent Three-Dimensional Finite-Element Model of a Single Neuron. *Cinelli, I.*, +, *TBME June 2018 1373-1381*
- Thermocouples**
- An In Vitro and Numerical Study of Moxibustion Therapy on Biological Tissue. *Li, Y.*, +, *TBME April 2018 779-788*
- Thermomechanical treatment**
- Electrothermal Equivalent Three-Dimensional Finite-Element Model of a Single Neuron. *Cinelli, I.*, +, *TBME June 2018 1373-1381*
- Three-dimensional displays**
- Automatic Recognition of fMRI-Derived Functional Networks Using 3-D Convolutional Neural Networks. *Zhao, Y.*, +, *TBME Sept. 2018 1975-1984*
- Real-Time Visualization and Analysis of Clinicians' Performance During Palpation in Physical Examinations. *Granados, A.*, +, *TBME Sept. 2018 2042-2051*
- Three-dimensional printing**
- An MRI-Compatible Hydrodynamic Simulator of Cerebrospinal Fluid Motion in the Cervical Spine. *Thyagaraj, S.*, +, *TBME July 2018 1516-1523*
- Three-term control**
- Model Free iPID Control for Glycemia Regulation of Type-1 Diabetes. *MohammadRidha, T.*, +, *TBME Jan. 2018 199-206*
- Time measurement**
- Novel Modeling of Somatosensory Evoked Potentials for the Assessment of Spinal Cord Injury. *Mir, H.*, +, *TBME March 2018 511-520*
- Time series**
- Dual Temporal and Spatial Sparse Representation for Inferring Group-Wise Brain Networks From Resting-State fMRI Dataset. *Gong, J.*, +, *TBME May 2018 1035-1048*
- Instantaneous Transfer Entropy for the Study of Cardiovascular and Cardiorespiratory Nonstationary Dynamics. *Valenza, G.*, +, *TBME May 2018 1077-1085*
- Robust Nonlinear Causality Analysis of Nonstationary Multivariate Physiological Time Series. *Schack, T.*, +, *TBME June 2018 1213-1225*
- Tensor Decomposition of Gait Dynamics in Parkinson's Disease. *Pham, T.D.*, +, *TBME Aug. 2018 1820-1827*
- Time series analysis**
- Estimating Brain Connectivity With Varying-Length Time Lags Using a Recurrent Neural Network. *Wang, Y.*, +, *TBME Sept. 2018 1953-1963*
- Time-frequency analysis**
- A Time-Varying Nonparametric Methodology for Assessing Changes in QT Variability Unrelated to Heart Rate Variability. *Orini, M.*, +, *TBME July 2018 1443-1451*
- Time-Varying Time-Frequency Complexity Measures for Epileptic EEG Data Analysis. *Colominas, M.A.*, +, *TBME Aug. 2018 1681-1688*
- Time-varying systems**
- Robust Nonlinear Causality Analysis of Nonstationary Multivariate Physiological Time Series. *Schack, T.*, +, *TBME June 2018 1213-1225*
- Timing**
- Distortion Distribution of Neural Spike Train Sequence Matching With Optogenetics. *Noel, A.*, +, *TBME Dec. 2018 2814-2826*
- Tissue engineering**
- Ex Vivo Modeling of Perioperative Air Leaks in Porcine Lungs. *Klassen, C.*, +, *TBME Dec. 2018 2827-2836*
- Enhancement of Intercellular Electrical Synchronization by Conductive Materials in Cardiac Tissue Engineering. *Wu, Y.*, +, *TBME Feb. 2018 264-272*
- Touch (physiological)**
- Decoding Covert Somatosensory Attention by a BCI System Calibrated With Tactile Sensation. *Yao, L.*, +, *TBME Aug. 2018 1689-1695*
- Mechanical Imaging of Soft Tissues With a Highly Compliant Tactile Sensing Array. *Li, B.*, +, *TBME March 2018 687-697*
- Toxicology**
- Closed-Loop Control for Precision Antimicrobial Delivery: An In Silico Proof-of-Concept. *Herrero, P.*, +, *TBME Oct. 2018 2231-2236*
- Tracking**
- A Hybrid Image Registration and Matching Framework for Real-Time Motion Tracking in MRI-Guided Radiotherapy. *Seregini, M.*, +, *TBME Jan. 2018 131-139*
- Optimal Mixed Tracking/Impedance Control With Application to Transfemoral Prostheses With Energy Regeneration. *Khademi, G.*, +, *TBME April 2018 894-910*

Transducers

Magnetomotive Displacement of the Tympanic Membrane Using Magnetic Nanoparticles: Toward Enhancement of Sound Perception. *Huang, P.*, +, *TBME Dec. 2018 2837-2846*

Microbubble Localization for Three-Dimensional Superresolution Ultrasound Imaging Using Curve Fitting and Deconvolution Methods. *Feroozan, F.*, +, *TBME Dec. 2018 2692-2703*

PMN-PT Single Crystal Ultrasonic Transducer With Half-Concave Geometric Design for IVUS Imaging. *Fei, C.*, +, *TBME Sept. 2018 2087-2092*

Transfer functions

N-Point Moving Average: A Special Generalized Transfer Function Method for Estimation of Central Aortic Blood Pressure. *Xiao, H.*, +, *TBME June 2018 1226-1234*

Tumors

A 750-MHz Electronically Tunable Resonator Using Microstrip Line Couplers for Electron Paramagnetic Resonance Imaging of a Mouse Tumor-Bearing Leg. *Amida, T.*, +, *TBME May 2018 1124-1132*

A Cascaded Deep Convolutional Neural Network for Joint Segmentation and Genotype Prediction of Brainstem Gliomas. *Liu, J.*, +, *TBME Sept. 2018 1943-1952*

A Hybrid Image Registration and Matching Framework for Real-Time Motion Tracking in MRI-Guided Radiotherapy. *Seregni, M.*, +, *TBME Jan. 2018 131-139*

A Radiomics Approach With CNN for Shear-Wave Elastography Breast Tumor Classification. *Zhou, Y.*, +, *TBME Sept. 2018 1935-1942*

A Time-Reversal Imaging System for Breast Screening: Theory and Initial Phantom Results. *Yousefnia, M.*, +, *TBME Nov. 2018 2542-2551*

An In Vitro and Numerical Study of Moxibustion Therapy on Biological Tissue. *Li, Y.*, +, *TBME April 2018 779-788*

Characterization of Nonlinearity and Dispersion in Tissue Impedance During High-Frequency Electroporation. *Bhonsle, S.*, +, *TBME Oct. 2018 2190-2201*

Electromechanical Coupling Factor of Breast Tissue as a Biomarker for Breast Cancer. *Park, K.*, +, *TBME Jan. 2018 96-103*

Mechanical Imaging of Soft Tissues With a Highly Compliant Tactile Sensing Array. *Li, B.*, +, *TBME March 2018 687-697*

Microwave Breast Imaging: Clinical Advances and Remaining Challenges. *O Loughlin, D.*, +, *TBME Nov. 2018 2580-2590*

MRI-Guided Robotically Assisted Focal Laser Ablation of the Prostate Using Canine Cadavers. *Chen, Y.*, +, *TBME July 2018 1434-1442*

Optimization of the Working Conditions for Magnetic Nanoparticle-Enhanced Microwave Diagnostics of Breast Cancer. *Bellizzi, G.*, +, *TBME July 2018 1607-1616*

Semiautomatic Radiofrequency Ablation Planning Based on Constrained Clustering Process for Hepatic Tumors. *Chen, R.*, +, *TBME March 2018 645-657*

Semiblind Spectral Factorization Approach for Magnetic Resonance Spectroscopy Quantification. *Ferdowsi, S.*, +, *TBME Aug. 2018 1717-1724*

Sequential Therapeutic Response Modeling for Tumor Treatment Using Computational Hybrid Control Systems Approach. *Oduola, W.O.*, +, *TBME April 2018 866-874*

Spatial Evidential Clustering With Adaptive Distance Metric for Tumor Segmentation in FDG-PET Images. *Lian, C.*, +, *TBME Jan. 2018 21-30*

Treatment of Cancer In Vitro Using Radiation and High-Frequency Bursts of Submicrosecond Electrical Pulses. *Sano, M.B.*, +, *TBME April 2018 928-935*

Ultra-Wideband Millimeter-Wave Dielectric Characteristics of Freshly Excised Normal and Malignant Human Skin Tissues. *Mirbeik-Sabzevari, A.*, +, *TBME June 2018 1320-1329*

WaveDec: A Wavelet Approach to Identify Both Shared and Individual Patterns of Copy-Number Variations. *Cai, H.*, +, *TBME Feb. 2018 353-364*

U**Ultra wideband antennas**

A Time-Reversal Imaging System for Breast Screening: Theory and Initial Phantom Results. *Yousefnia, M.*, +, *TBME Nov. 2018 2542-2551*

Ultrasonic imaging

A Delayed-Excitation Data Acquisition Method for High-Frequency Ultrasound Imaging. *Qiu, W.*, +, *TBME Jan. 2018 15-20*

Microbubble Localization for Three-Dimensional Superresolution Ultrasound Imaging Using Curve Fitting and Deconvolution Methods. *Feroozan, F.*, +, *TBME Dec. 2018 2692-2703*

Multiaccess In Vivo Biotelemetry Using Sonomicrometry and M-Scan Ultrasound Imaging. *Kondapalli, S.H.*, +, *TBME Jan. 2018 149-158*

Noninvasive Blood Pressure Estimation Using Ultrasound and Simple Finite Element Models. *Zakrzewski, A.M.*, +, *TBME Sept. 2018 2011-2022*

Super-Resolution Axial Localization of Ultrasound Scatter Using Multi-Focal Imaging. *Diamantis, K.*, +, *TBME Aug. 2018 1840-1851*

Unambiguous Identification and Visualization of an Acoustically Active Catheter by Ultrasound Imaging in Real Time: Theory, Algorithm, and Phantom Experiments. *Kumar, V.*, +, *TBME July 2018 1468-1475*

Ultrasonic therapy

Epidermal Electrode Technology for Detecting Ultrasonic Perturbation of Sensory Brain Activity. *Huang, S.*, +, *TBME June 2018 1272-1280*

Full Modeling of High-Intensity Focused Ultrasound and Thermal Heating in the Kidney Using Realistic Patient Models. *Suomi, V.*, +, *TBME May 2018 969-979*

Full Modeling of High-Intensity Focused Ultrasound and Thermal Heating in the Kidney Using Realistic Patient Models. *Suomi, V.*, +, *TBME Nov. 2018 2660-2670*

Ultrasonic transducers

A Delayed-Excitation Data Acquisition Method for High-Frequency Ultrasound Imaging. *Qiu, W.*, +, *TBME Jan. 2018 15-20*

Sparse Ultrasound Image Reconstruction From a Shape-Sensing Single-Element Forward-Looking Catheter. *Janjic, J.*, +, *TBME Oct. 2018 2210-2218*

Ultrasonic variables measurement

Noninvasive Blood Pressure Estimation Using Ultrasound and Simple Finite Element Models. *Zakrzewski, A.M.*, +, *TBME Sept. 2018 2011-2022*

Uncertainty handling

Spatial Evidential Clustering With Adaptive Distance Metric for Tumor Segmentation in FDG-PET Images. *Lian, C.*, +, *TBME Jan. 2018 21-30*

V**Varactors**

A 750-MHz Electronically Tunable Resonator Using Microstrip Line Couplers for Electron Paramagnetic Resonance Imaging of a Mouse Tumor-Bearing Leg. *Amida, T.*, +, *TBME May 2018 1124-1132*

Ventilation

Ex Vivo Modeling of Perioperative Air Leaks in Porcine Lungs. *Klassen, C.*, +, *TBME Dec. 2018 2827-2836*

On the Feasibility of Automated Mechanical Ventilation Control Through EIT. *Tregidgo, H.F.J.*, +, *TBME Nov. 2018 2459-2470*

Vibration control

A Flexure-Guided Piezo Drill for Penetrating the Zona Pellucida of Mammalian Oocytes. *Johnson, W.*, +, *TBME March 2018 678-686*

Broadband Vibration Detection in Tissue Phantoms Using a Fiber Fabry-Perot Cavity. *Barnes, J.*, +, *TBME April 2018 921-927*

Broadband Vibration Detection in Tissue Phantoms Using a Fiber Fabry-Perot Cavity. *Barnes, J.*, +, *TBME April 2018 921-927*

Magnetomotive Displacement of the Tympanic Membrane Using Magnetic Nanoparticles: Toward Enhancement of Sound Perception. *Huang, P.*, +, *TBME Dec. 2018 2837-2846*

Optimal Mixed Tracking/Impedance Control With Application to Transfemoral Prostheses With Energy Regeneration. *Khademi, G.*, +, *TBME April 2018 894-910*

Video recording

Continuous Assessment of Levodopa Response in Parkinson's Disease Using Wearable Motion Sensors. *Pulliam, C.L.*, +, *TBME Jan. 2018 159-164*

Virtual reality

EEG-Based Affect and Workload Recognition in a Virtual Driving Environment for ASD Intervention. *Fan, J.*, +, *TBME Jan. 2018 43-51*

Viruses (medical)

Pathogen Detection Using Frequency Domain Fluorescent Lifetime Measurements. *Yahav, G.*, +, *TBME Dec. 2018 2731-2741*

Viscoelasticity

Automated In Vivo Sub-Hertz Analysis of Viscoelasticity (SAVE) for Evaluation of Breast Lesions. *Bayat, M.*, +, *TBME Oct. 2018 2237-2247*

Viscosity

Viscosity Prediction in a Physiologically Controlled Ventricular Assist Device. *Petrou, A.*, +, *TBME Oct. 2018 2355-2364*

Vision

A Brain-Computer Interface Based on Miniature-Event-Related Potentials Induced by Very Small Lateral Visual Stimuli. *Xu, M.*, +, *TBME May 2018 1166-1175*

Vision defects

- An Automated System for the Detection and Classification of Retinal Changes Due to Red Lesions in Longitudinal Fundus Images. *Adal, K.M.*, +, *TBME June 2018 1382-1390*
- Three-Dimensional Segmentation of the *Ex-Vivo* Anterior Lamina Cribrosa From Second-Harmonic Imaging Microscopy. *Ram, S.*, +, *TBME July 2018 1617-1629*

Visual evoked potentials

- A Brain-Computer Interface Based on Miniature-Event-Related Potentials Induced by Very Small Lateral Visual Stimuli. *Xu, M.*, +, *TBME May 2018 1166-1175*
- Enhancing Detection of SSVEPs for a High-Speed Brain Speller Using Task-Related Component Analysis. *Nakanishi, M.*, +, *TBME Jan. 2018 104-112*
- Four Novel Motion Paradigms Based on Steady-State Motion Visual Evoked Potential. *Yan, W.*, +, *TBME Aug. 2018 1696-1704*

Visual servoing

- Visual Servoed Three-Dimensional Rotation Control in Zebrafish Larva Heart Microinjection System. *Zhuang, S.*, +, *TBME Jan. 2018 64-73*

Visualization

- Asynchronous Brain-Computer Interfacing Based on Mixed-Coded Visual Stimuli. *Suefusa, K.*, +, *TBME Sept. 2018 2119-2129*

Volume measurement

- Robust Multicontrast MRI Spleen Segmentation for Splenomegaly Using Multi-Atlas Segmentation. *Huo, Y.*, +, *TBME Feb. 2018 336-343*

W**Wave propagation**

- Improved Visualization of Gastrointestinal Slow Wave Propagation Using a Novel Wavefront-Oriented Interpolation Technique. *Mayne, T.P.*, +, *TBME Feb. 2018 319-326*

Waveform analysis

- A Fiber Bragg Grating Sensor for Radial Artery Pulse Waveform Measurement. *Jia, D.*, +, *TBME April 2018 839-846*

Wavelet transforms

- Electrophysiological Muscle Classification Using Multiple Instance Learning and Unsupervised Time and Spectral Domain Analysis. *Kamali, T.*, +, *TBME Nov. 2018 2494-2502*
- Epileptic Seizure Detection in Long-Term EEG Recordings by Using Wavelet-Based Directed Transfer Function. *Wang, D.*, +, *TBME Nov. 2018 2591-2599*

- Focal Onset Seizure Prediction Using Convolutional Networks. *Khan, H.*, +, *TBME Sept. 2018 2109-2118*

- Mortality Prediction in Severe Congestive Heart Failure Patients With Multifractal Point-Process Modeling of Heartbeat Dynamics. *Valenza, G.*, +, *TBME Oct. 2018 2345-2354*

- WaveDec: A Wavelet Approach to Identify Both Shared and Individual Patterns of Copy-Number Variations. *Cai, H.*, +, *TBME Feb. 2018 353-364*

Wearable antennas

- Near-Field Inductive-Coupling Link to Power a Three-Dimensional Millimeter-Size Antenna for Brain Implantable Medical Devices. *Manoufali, M.*, +, *TBME Jan. 2018 4-14*

Wheelchairs

- An EOG-Based Human-Machine Interface for Wheelchair Control. *Huang, Q.*, +, *TBME Sept. 2018 2023-2032*

Wireless communication

- Heartbeats Based Biometric Random Binary Sequences Generation to Secure Wireless Body Sensor Networks. *Pirbhulal, S.*, +, *TBME Dec. 2018 2751-2759*

- RF Channel Modeling for Implant-to-Implant Communication and Implant to Subcutaneous Implant Communication for Future Leadless Cardiac Pacemakers. *Bose, P.*, +, *TBME Dec. 2018 2798-2807*

Wireless LAN

- TR-BREATH: Time-Reversal Breathing Rate Estimation and Detection. *Chen, C.*, +, *TBME March 2018 489-501*

Wireless sensor networks

- Heartbeats Based Biometric Random Binary Sequences Generation to Secure Wireless Body Sensor Networks. *Pirbhulal, S.*, +, *TBME Dec. 2018 2751-2759*

X**X-ray imaging**

- Generalized Adaptive Gaussian Markov Random Field for X-Ray Luminescence Computed Tomography. *Zhang, G.*, +, *TBME Sept. 2018 2130-2133*

Z**Zigbee**

- Interoperable End-to-End Remote Patient Monitoring Platform Based on IEEE 11073 PHD and ZigBee Health Care Profile. *Clarke, M.*, +, *TBME May 2018 1014-1025*