

2018 Index

IEEE Transactions on Transportation Electrification

Vol. 4

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

- Aaron Alexander, A.**, *see* Kavil Kambrath, J., *TTE March 2018 249-271*
Abdel-Hafez, M.F., *see* Shehab El Din, M., *TTE June 2018 408-417*
Afjei, E., *see* Moradi CheshmehBeigi, H., *TTE Dec. 2018 877-887*
Ahmad, A., Alam, M.S., and Chabaan, R., A Comprehensive Review of Wireless Charging Technologies for Electric Vehicles; *TTE March 2018 38-63*
Ahmad, I., *see* Moghaddam, Z., *TTE March 2018 76-88*
Ai, Z., *see* Zhang, Y., *TTE March 2018 190-201*
Alam, M.S., *see* Ahmad, A., *TTE March 2018 38-63*
Ali, S.Q., Mascarella, D., Joos, G., and Tan, L., Torque Cancellation of Integrated Battery Charger Based on Six-Phase Permanent Magnet Synchronous Motor Drives for Electric Vehicles; *TTE June 2018 344-354*
Aljehaimi, A.M., and Pillay, P., Braking a Variable Flux-Intensifying IPMSM in Minimal Time; *TTE Dec. 2018 867-876*
Aljehaimi, A.M., and Pillay, P., Operating Envelopes of the Variable-Flux Machine With Positive Reluctance Torque; *TTE Sept. 2018 707-719*
Amitkumar, K.S., Kaarthik, R.S., and Pillay, P., A Versatile Power-Hardware-in-the-Loop-Based Emulator for Rapid Testing of Transportation Electric Drives; *TTE Dec. 2018 901-911*
Amitkumar, K.S., *see* Masadeh, M.A., *TTE June 2018 483-493*
Amitkumar, K.S., *see* Kaarthik, R.S., *TTE June 2018 474-482*
An, B., Li, Y., Liu, F., Xie, B., Hu, S., Wang, P., Zhang, Z., Luo, L., and Cao, Y., An Asymmetrical Connection Balance Transformer-Based Hybrid Railway Power Conditioning System With Cost-Function Optimization; *TTE June 2018 577-590*
Andersson, A., and Thiringer, T., Motion Sensorless IPMSM Control Using Linear Moving Horizon Estimation With Luenberger Observer State Feedback; *TTE June 2018 464-473*
Anvari, B., Toliyat, H.A., and Fahimi, B., Simultaneous Optimization of Geometry and Firing Angles for In-Wheel Switched Reluctance Motor Drive; *TTE March 2018 322-329*
Arbab Rahman, N., *see* Maharjan, L., *TTE Dec. 2018 835-856*
Arefifar, S.A., *see* Shafiei, N., *TTE March 2018 108-121*
Arumugam, P., *see* Bozhko, S., *TTE Dec. 2018 985-996*

B

- Balsara, P.T.**, *see* Patil, D., *TTE March 2018 3-37*
Balsara, P.T., *see* Maharjan, L., *TTE Dec. 2018 835-856*
Bauman, J., *see* Palcu, P., *TTE March 2018 172-183*
Becker, J.N., *see* Nemeth, T., *TTE Dec. 2018 888-900*
Beniakar, M.E., *see* Krasopoulos, C.T., *TTE June 2018 525-535*
Bilgin, B., *see* Liang, J., *TTE Sept. 2018 720-731*
Bostanci, E., *see* Maharjan, L., *TTE Dec. 2018 835-856*

- Bozhko, S.**, Yang, T., Le Peuvedic, J., Arumugam, P., Degano, M., La Rocca, A., Xu, Z., Rashed, M., Fernando, W., Hill, C.I., Eastwick, C., Pickering, S., Gerada, C., and Wheeler, P., Development of Aircraft Electric Starter-Generator System Based on Active Rectification Technology; *TTE Dec. 2018 985-996*
Bradley, T.H., *see* Vore, S.E., *TTE March 2018 184-189*
Bryden, T., *see* Hilton, G., *TTE Sept. 2018 744-756*
Bubert, A., *see* Nemeth, T., *TTE Dec. 2018 888-900*
Burt, G.M., *see* Jones, C.E., *TTE Sept. 2018 660-670*

C

- Cai, W.**, *see* Maharjan, L., *TTE Dec. 2018 835-856*
Caicedo Narvaez, C., *see* Maharjan, L., *TTE Dec. 2018 835-856*
Calderaro, V., *see* Graber, G., *TTE June 2018 616-625*
Cao, Y., *see* An, B., *TTE June 2018 577-590*
Caron, H., *see* Verdicchio, A., *TTE June 2018 591-604*
Ceraolo, M., Modeling and Simulation of AC Railway Electric Supply Lines Including Ground Return; *TTE March 2018 202-210*
Chabaan, R., *see* Ahmad, A., *TTE March 2018 38-63*
Chandar A., S., and Panda, S.K., Detection and Isolation of Interturn Faults in Inductors of LCL Filter for Marine Electric Propulsion System; *TTE March 2018 232-248*
Chauhan, A.K., *see* Deepankar, ., *TTE Sept. 2018 732-743*
Chen, J., and Wang, C., Investigation on the Selection of Electric Power System Architecture for Future More Electric Aircraft; *TTE June 2018 563-576*
Chen, J., *see* Chen, J., *TTE June 2018 563-576*
Chen, J., *see* Duan, C., *TTE June 2018 432-443*
Chen, L., *see* Wang, K., *TTE March 2018 220-231*
Choi, S., Haque, M.S., Tarek, M.T.B., Mulpuri, V., Duan, Y., Das, S., Garg, V., Inel, D.M., Masrur, M.A., Mirafzal, B., and Toliyat, H.A., Fault Diagnosis Techniques for Permanent Magnet AC Machine and Drives—A Review of Current State of the Art; *TTE June 2018 444-463*
Cosoroaba, E., *see* Maharjan, L., *TTE Dec. 2018 835-856*
Courtois, C., *see* Verdicchio, A., *TTE June 2018 591-604*
Cruden, A., *see* Hilton, G., *TTE Sept. 2018 744-756*

D

- D'Arco, S.**, Piegari, L., and Tricoli, P., Comparative Analysis of Topologies to Integrate Photovoltaic Sources in the Feeder Stations of AC Railways; *TTE Dec. 2018 951-960*
Das, S., *see* Choi, S., *TTE June 2018 444-463*
De Doncker, R.W., *see* Nemeth, T., *TTE Dec. 2018 888-900*
Deepankar, ., Chauhan, A.K., and Singh, S.K., Integrated Dual-Output L-Z Source Inverter for Hybrid Electric Vehicle; *TTE Sept. 2018 732-743*
Degano, M., *see* Bozhko, S., *TTE Dec. 2018 985-996*
DeVaal, J., *see* Homayouni, H., *TTE June 2018 418-431*
Dimitrov, B., *see* Hilton, G., *TTE Sept. 2018 744-756*
Dinavahi, V., *see* Liang, T., *TTE June 2018 626-641*
Ding, L., *see* Sindi, E., *TTE Sept. 2018 778-788*
Duan, C., Wang, C., Li, Z., Chen, J., Wang, S., Snyder, A., and Jiang, C., A Solar Power-Assisted Battery Balancing System for Electric Vehicles; *TTE June 2018 432-443*
Duan, Y., *see* Choi, S., *TTE June 2018 444-463*

E

- Eastwick, C.**, *see* Bozhko, S., *TTE Dec. 2018 985-996*
Elsayed, A.T., *see* Faddel, S., *TTE Dec. 2018 971-984*
Emadi, A., *see* Liang, J., *TTE Sept. 2018 720-731*

F

- Faddel, S.**, Youssef, T., Elsayed, A.T., and Mohammed, O.A., An Automated Charger for Large-Scale Adoption of Electric Vehicles; *TTE Dec. 2018* 971-984
- Fahimi, B.**, see Anvari, B., *TTE March 2018* 322-329
- Fahimi, B.**, see Patil, D., *TTE March 2018* 3-37
- Fahimi, B.**, see Yang, Z., *TTE March 2018* 147-156
- Fahimi, B.**, see Maharjan, L., *TTE Dec. 2018* 835-856
- Feng, D.**, Lin, S., He, Z., Sun, X., and Lee, W., Optimization Method With Prediction-Based Maintenance Strategy for Traction Power Supply Equipment Based on Risk Quantification; *TTE Dec. 2018* 961-970
- Feng, D.**, Lin, S., He, Z., Sun, X., and Wang, Z., Failure Risk Interval Estimation of Traction Power Supply Equipment Considering the Impact of Multiple Factors; *TTE June 2018* 389-398
- Feng, Y.**, see Zhang, Y., *TTE March 2018* 190-201
- Fernando, W.**, see Bozhko, S., *TTE Dec. 2018* 985-996

G

- Gajanayake, C.J.**, see Kavil Kambrath, J., *TTE March 2018* 249-271
- Galdi, V.**, see Graber, G., *TTE June 2018* 616-625
- Galea, M.**, see Madonna, V., *TTE Sept. 2018* 646-659
- Galloway, S.J.**, see Jones, C.E., *TTE Sept. 2018* 660-670
- Gao, F.**, see Liu, C., *TTE Dec. 2018* 912-921
- Garg, V.**, see Choi, S., *TTE June 2018* 444-463
- Gatherer, J.**, see Masrur, M.A., *TTE March 2018* 157-171
- Gauchia, A.**, see Jafari, M., *TTE March 2018* 122-134
- Gauchia, L.**, see Jafari, M., *TTE March 2018* 122-134
- Gavagsaz-Ghochani, R.**, Phattanasak, M., Martin, J., Nahid-Mobarakeh, B., and Pierfederici, S., A Fixed-Frequency Optimization of PWM Current Controller—Modeling and Design of Control Parameters; *TTE Sept. 2018* 671-683
- Gechter, F.**, see Liu, C., *TTE Dec. 2018* 912-921
- Gerada, C.**, see Bozhko, S., *TTE Dec. 2018* 985-996
- Giangrande, P.**, see Madonna, V., *TTE Sept. 2018* 646-659
- Gobbi, M.**, see Ramakrishnan, K., *TTE March 2018* 314-321
- Golnaraghi, F.**, see Homayouni, H., *TTE June 2018* 418-431
- Goupil, C.**, see Risseh, A.E., *TTE June 2018* 548-562
- Graber, G.**, Calderaro, V., Galdi, V., Piccolo, A., Lamedica, R., and Ruvio, A., Techno-economic Sizing of Auxiliary-Battery-Based Substations in DC Railway Systems; *TTE June 2018* 616-625
- Gu, L.**, see Maharjan, L., *TTE Dec. 2018* 835-856
- Guha, A.**, and Patra, A., State of Health Estimation of Lithium-Ion Batteries Using Capacity Fade and Internal Resistance Growth Models; *TTE March 2018* 135-146
- Guo, X.**, see Liu, C., *TTE Dec. 2018* 912-921
- Gupta, A.K.**, see Kavil Kambrath, J., *TTE March 2018* 249-271

H

- Habibi, D.**, see Moghaddam, Z., *TTE March 2018* 76-88
- Hallett, S.R.**, see Jones, C.E., *TTE Sept. 2018* 660-670
- Han, D.**, see Lee, W., *TTE Sept. 2018* 684-693
- Hancock, J.**, see Masrur, M.A., *TTE March 2018* 157-171
- Haque, M.S.**, see Choi, S., *TTE June 2018* 444-463
- Hassanpour Isfahani, A.**, see Maharjan, L., *TTE Dec. 2018* 835-856
- He, Z.**, see Li, Y., *TTE March 2018* 64-75
- He, Z.**, see Wang, K., *TTE March 2018* 220-231
- He, Z.**, see Feng, D., *TTE Dec. 2018* 961-970
- He, Z.**, see Li, Y., *TTE June 2018* 364-375
- He, Z.**, see Feng, D., *TTE June 2018* 389-398
- Hearron, J.**, see Maharjan, L., *TTE Dec. 2018* 835-856
- Hill, C.I.**, see Bozhko, S., *TTE Dec. 2018* 985-996
- Hillmansen, S.**, see Xu, G., *TTE June 2018* 605-615
- Hilton, G.**, Kiaee, M., Bryden, T., Dimitrov, B., Cruden, A., and Mortimer, A., A Stochastic Method for Prediction of the Power Demand at High Rate EV Chargers; *TTE Sept. 2018* 744-756
- Homayouni, H.**, DeVaal, J., Golnaraghi, F., and Wang, J., Voltage Reduction Technique for Use With Electrochemical Impedance Spectroscopy in High-Voltage Fuel Cell and Battery Systems; *TTE June 2018* 418-431

- Hsieh, H.**, Wang, H., and Huang, T., LLC Charger Using Quasi-Contactless Power Transfer by Resonant Magnetic Induction Coupling; *TTE June 2018* 376-388
- Hu, H.**, see Wang, K., *TTE March 2018* 220-231
- Hu, J.**, see Li, Y., *TTE June 2018* 364-375
- Hu, S.**, see An, B., *TTE June 2018* 577-590
- Hu, W.**, see Zhu, M., *TTE March 2018* 303-313
- Hu, X.**, see Liu, Z., *TTE Sept. 2018* 757-766
- Hu, Z.**, see Zhang, H., *TTE Sept. 2018* 789-803
- Huang, L.**, see Li, Y., *TTE March 2018* 64-75
- Huang, T.**, see Hsieh, H., *TTE June 2018* 376-388
- Hussein, A.A.**, see Shehab El Din, M., *TTE June 2018* 408-417

I

- Ibrahim, M.**, see Takbash, A., *TTE Dec. 2018* 857-866
- Ibrahim, M.**, see Takbash, A., *TTE June 2018* 536-547
- Ionel, D.M.**, see Choi, S., *TTE June 2018* 444-463
- Iqbal, S.**, see Shahzad, M.I., *TTE March 2018* 89-98

J

- Jafari, M.**, Gauchia, A., Zhao, S., Zhang, K., and Gauchia, L., Electric Vehicle Battery Cycle Aging Evaluation in Real-World Daily Driving and Vehicle-to-Grid Services; *TTE March 2018* 122-134
- Jiang, C.**, see Duan, C., *TTE June 2018* 432-443
- Jiang, J.W.**, see Liang, J., *TTE Sept. 2018* 720-731
- Jones, C.E.**, Norman, P.J., Szykiel, M., Pena Alzola, R., Burt, G.M., Galloway, S.J., Kawashita, L.F., and Hallett, S.R., Electrical and Thermal Effects of Fault Currents in Aircraft Electrical Power Systems With Composite Aerostructures; *TTE Sept. 2018* 660-670
- Joos, G.**, see Ali, S.Q., *TTE June 2018* 344-354

K

- Kaarthik, R.S.**, see Amitkumar, K.S., *TTE Dec. 2018* 901-911
- Kaarthik, R.S.**, Amitkumar, K.S., and Pillay, P., Emulation of a Permanent-Magnet Synchronous Generator in Real-Time Using Power Hardware-in-the-Loop; *TTE June 2018* 474-482
- Kar, N.C.**, see Zhu, M., *TTE March 2018* 303-313
- Karami, E.**, see Moradi CheshmehBeigi, H., *TTE Dec. 2018* 877-887
- Kavil Kambrath, J.**, Wang, Y., Yoon, Y., Aaron Alexander, A., Liu, X., Wilson, G., Gajanayake, C.J., and Gupta, A.K., Modeling and Control of Marine Diesel Generator System With Active Protection; *TTE March 2018* 249-271
- Kawashita, L.F.**, see Jones, C.E., *TTE Sept. 2018* 660-670
- Ke, B.**, see Zhao, X., *TTE Dec. 2018* 922-935
- Khaligh, A.**, see Lu, J., *TTE March 2018* 99-107
- Khaligh, A.**, see Zou, S., *TTE June 2018* 355-363
- Khodayar, M.E.**, see Xie, R., *TTE Sept. 2018* 817-830
- Kiaee, M.**, see Hilton, G., *TTE Sept. 2018* 744-756
- Kladas, A.G.**, see Krasopoulos, C.T., *TTE June 2018* 525-535
- Kolhoff, S.W.**, see Masrur, M.A., *TTE March 2018* 157-171
- Kosowski, M.**, see Vore, S.E., *TTE March 2018* 184-189
- Krasopoulos, C.T.**, Beniakar, M.E., and Kladas, A.G., Multicriteria PM Motor Design Based on ANFIS Evaluation of EV Driving Cycle Efficiency; *TTE June 2018* 525-535

L

- La Rocca, A.**, see Bozhko, S., *TTE Dec. 2018* 985-996
- Ladoux, P.**, see Verdicchio, A., *TTE June 2018* 591-604
- Lamedica, R.**, see Graber, G., *TTE June 2018* 616-625
- Le Peuedic, J.**, see Bozhko, S., *TTE Dec. 2018* 985-996
- Lee, W.**, see Feng, D., *TTE Dec. 2018* 961-970
- Lee, W.**, Li, S., Han, D., Sarlioglu, B., Minav, T.A., and Pietola, M., A Review of Integrated Motor Drive and Wide-Bandgap Power Electronics for High-Performance Electro-Hydrostatic Actuators; *TTE Sept. 2018* 684-693

- Li, S.**, *see* Lee, W., *TTE Sept. 2018 684-693*
- Li, Y.**, Lin, T., Mai, R., Huang, L., and He, Z., Compact Double-Sided Decoupled Coils-Based WPT Systems for High-Power Applications: Analysis, Design, and Experimental Verification; *TTE March 2018 64-75*
- Li, Y.**, *see* Maharjan, L., *TTE Dec. 2018 835-856*
- Li, Y.**, *see* An, B., *TTE June 2018 577-590*
- Li, Y.**, Xu, Q., Lin, T., Hu, J., He, Z., and Mai, R., Analysis and Design of Load-Independent Output Current or Output Voltage of a Three-Coil Wireless Power Transfer System; *TTE June 2018 364-375*
- Li, Z.**, *see* Liu, C., *TTE Dec. 2018 912-921*
- Li, Z.**, *see* Duan, C., *TTE June 2018 432-443*
- Lian, K.**, *see* Zhao, X., *TTE Dec. 2018 922-935*
- Liang, J.**, Jiang, J.W., Bilgin, B., and Emadi, A., Shaft Design for Electric Traction Motors; *TTE Sept. 2018 720-731*
- Liang, T.**, and Dinavahi, V., Real-Time Device-Level Simulation of MMC-Based MVDC Traction Power System on MPSoc; *TTE June 2018 626-641*
- Liao, Y.**, *see* Liu, Z., *TTE Sept. 2018 757-766*
- Lin, C.**, *see* Maharjan, L., *TTE Dec. 2018 835-856*
- Lin, S.**, *see* Feng, D., *TTE Dec. 2018 961-970*
- Lin, S.**, *see* Feng, D., *TTE June 2018 389-398*
- Lin, T.**, *see* Li, Y., *TTE March 2018 64-75*
- Lin, T.**, *see* Li, Y., *TTE June 2018 364-375*
- Liu, C.**, Guo, X., Ma, R., Li, Z., Gechter, F., and Gao, F., A System-Level FPGA-Based Hardware-in-the-Loop Test of High-Speed Train; *TTE Dec. 2018 912-921*
- Liu, F.**, *see* An, B., *TTE June 2018 577-590*
- Liu, R.**, *see* Zhang, G., *TTE March 2018 330-339*
- Liu, X.**, *see* Kavil Kambrath, J., *TTE March 2018 249-271*
- Liu, X.**, *see* Yao, Y., *TTE Sept. 2018 767-777*
- Liu, Z.**, Hu, X., and Liao, Y., Vehicle-Grid System Stability Analysis Based on Norm Criterion and Suppression of Low-Frequency Oscillation With MMC-STATCOM; *TTE Sept. 2018 757-766*
- Lu, J.**, Mallik, A., Zou, S., and Khaligh, A., Variable DC-Link Control Loop Design for an Integrated Two-Stage AC/DC Converter; *TTE March 2018 99-107*
- Lu, J.**, *see* Zou, S., *TTE June 2018 355-363*
- Luo, L.**, *see* An, B., *TTE June 2018 577-590*
- Luo, M.**, *see* Maharjan, L., *TTE Dec. 2018 835-856*

M

- Ma, R.**, *see* Liu, C., *TTE Dec. 2018 912-921*
- Madonna, V.**, Giangrande, P., and Galea, M., Electrical Power Generation in Aircraft: Review, Challenges, and Opportunities; *TTE Sept. 2018 646-659*
- Maharjan, L.**, Bostanci, E., Wang, S., Cosoroaba, E., Cai, W., Yi, F., Shamsi, P., Wang, W., Gu, L., Luo, M., Arbab Rahman, N., McDonough, M., Lin, C., Hearron, J., Caicedo Narvaez, C., Wu, M., Hassanpour Isfahani, A., Li, Y., Rao, G., Moallem, M., Balsara, P.T., and Fahimi, B., Comprehensive Report on Design and Development of a 100-kW DSSRM; *TTE Dec. 2018 835-856*
- Mai, R.**, *see* Li, Y., *TTE March 2018 64-75*
- Mai, R.**, *see* Li, Y., *TTE June 2018 364-375*
- Mallik, A.**, *see* Lu, J., *TTE March 2018 99-107*
- Mallik, A.**, *see* Zou, S., *TTE June 2018 355-363*
- Maroufian, S.S.**, and Pillay, P., Torque Characterization of a Synchronous Reluctance Machine Using an Analytical Model; *TTE June 2018 506-516*
- Martin, J.**, *see* Gavagsaz-Ghoachani, R., *TTE Sept. 2018 671-683*
- Masadeh, M.A.**, Amitkumar, K.S., and Pillay, P., Power Electronic Converter-Based Induction Motor Emulator Including Main and Leakage Flux Saturation; *TTE June 2018 483-493*
- Mascarella, D.**, *see* Ali, S.Q., *TTE June 2018 344-354*
- Masisi, L.**, *see* Takbash, A., *TTE Dec. 2018 857-866*
- Masrur, M.A.**, Skowronska, A.G., Hancock, J., Kolhoff, S.W., McGrew, D.Z., Vandiver, J.C., and Gatherer, J., Military-Based Vehicle-to-Grid and Vehicle-to-Vehicle Microgrid—System Architecture and Implementation; *TTE March 2018 157-171*
- Masrur, M.A.**, *see* Choi, S., *TTE June 2018 444-463*
- Mastinu, G.**, *see* Ramakrishnan, K., *TTE March 2018 314-321*
- McDonough, M.**, *see* Maharjan, L., *TTE Dec. 2018 835-856*
- McDonough, M.K.**, *see* Patil, D., *TTE March 2018 3-37*
- McGrew, D.Z.**, *see* Masrur, M.A., *TTE March 2018 157-171*
- Mei, S.**, *see* Xie, R., *TTE Sept. 2018 817-830*
- Miller, J.M.**, *see* Patil, D., *TTE March 2018 3-37*

+ Check author entry for co-authors

- Min, S.G.**, and Sarlioglu, B., Modeling and Investigation on Electromagnetic Noise in PM Motors With Single- and Double-Layer Concentrated Winding for EV and HEV Application; *TTE March 2018 292-302*
- Min, S.G.**, and Sarlioglu, B., Advantages and Characteristic Analysis of Slotless Rotary PM Machines in Comparison With Conventional Laminated Design Using Statistical Technique; *TTE June 2018 517-524*
- Minav, T.A.**, *see* Lee, W., *TTE Sept. 2018 684-693*
- Minicucci, J.**, *see* Vore, S.E., *TTE March 2018 184-189*
- Mirafzal, B.**, *see* Choi, S., *TTE June 2018 444-463*
- Mishra, S.**, *see* Rana, R., *TTE Sept. 2018 804-816*
- Moallem, M.**, *see* Maharjan, L., *TTE Dec. 2018 835-856*
- Moghaddam, Z.**, Ahmad, I., Habibi, D., and Phung, Q.V., Smart Charging Strategy for Electric Vehicle Charging Stations; *TTE March 2018 76-88*
- Mohammed, O.A.**, *see* Faddel, S., *TTE Dec. 2018 971-984*
- Moradi CheshmehBeigi, H.**, Karami, E., Afjei, E., and Rouzbehi, K., Numerical and Experimental Investigation of an Improved Flux Path Brushless-DC Machine for Variable Speed Applications; *TTE Dec. 2018 877-887*
- Mortimer, A.**, *see* Hilton, G., *TTE Sept. 2018 744-756*
- Moura, S.J.**, *see* Zhang, H., *TTE Sept. 2018 789-803*
- Mulpuri, V.**, *see* Choi, S., *TTE June 2018 444-463*

N

- Nahid-Mobarakeh, B.**, *see* Gavagsaz-Ghoachani, R., *TTE Sept. 2018 671-683*
- Nair, R.**, *see* Saini, D.K., *TTE Dec. 2018 936-950*
- Nee, H.**, *see* Risseh, A.E., *TTE June 2018 548-562*
- Nemeth, T.**, Bubert, A., Becker, J.N., De Doncker, R.W., and Sauer, D.U., A Simulation Platform for Optimization of Electric Vehicles With Modular Drivetrain Topologies; *TTE Dec. 2018 888-900*
- Norman, P.J.**, *see* Jones, C.E., *TTE Sept. 2018 660-670*

O

- Ordonez, M.**, *see* Shafiei, N., *TTE March 2018 108-121*

P

- Palcu, P.**, and Bauman, J., Whole-Day Driving Prediction Control Strategy: Analysis on Real-World Drive Cycles; *TTE March 2018 172-183*
- Panda, S.K.**, *see* Chandar A., S., *TTE March 2018 232-248*
- Patil, D.**, McDonough, M.K., Miller, J.M., Fahimi, B., and Balsara, P.T., Wireless Power Transfer for Vehicular Applications: Overview and Challenges; *TTE March 2018 3-37*
- Patil, D.**, *see* Yang, Z., *TTE March 2018 147-156*
- Patra, A.**, *see* Guha, A., *TTE March 2018 135-146*
- Pena Alzola, R.**, *see* Jones, C.E., *TTE Sept. 2018 660-670*
- Phattanasak, M.**, *see* Gavagsaz-Ghoachani, R., *TTE Sept. 2018 671-683*
- Phung, Q.V.**, *see* Moghaddam, Z., *TTE March 2018 76-88*
- Piccolo, A.**, *see* Graber, G., *TTE June 2018 616-625*
- Pickering, S.**, *see* Bozhko, S., *TTE Dec. 2018 985-996*
- Piegari, L.**, *see* D'Arco, S., *TTE Dec. 2018 951-960*
- Pierfederici, S.**, *see* Gavagsaz-Ghoachani, R., *TTE Sept. 2018 671-683*
- Pietola, M.**, *see* Lee, W., *TTE Sept. 2018 684-693*
- Pillay, P.**, *see* Takbash, A., *TTE Dec. 2018 857-866*
- Pillay, P.**, *see* Amitkumar, K.S., *TTE Dec. 2018 901-911*
- Pillay, P.**, *see* Aljehaimi, A.M., *TTE Dec. 2018 867-876*
- Pillay, P.**, *see* Thike, R., *TTE June 2018 494-505*
- Pillay, P.**, *see* Masadeh, M.A., *TTE June 2018 483-493*
- Pillay, P.**, *see* Takbash, A., *TTE June 2018 536-547*
- Pillay, P.**, *see* Kaarthik, R.S., *TTE June 2018 474-482*
- Pillay, P.**, *see* Maroufian, S.S., *TTE June 2018 506-516*
- Pillay, P.**, *see* Aljehaimi, A.M., *TTE Sept. 2018 707-719*
- Polis, M.**, *see* Sindi, E., *TTE Sept. 2018 778-788*
- Pou, J.**, *see* Satpathi, K., *TTE March 2018 272-291*
- Pou, J.**, *see* Satpathi, K., *TTE Sept. 2018 694-706*
- Prakash, S.**, *see* Rana, R., *TTE Sept. 2018 804-816*
- Prasad, R.**, *see* Saini, D.K., *TTE Dec. 2018 936-950*

Q

Qi, W., *see* Zhang, H., *TTE Sept. 2018 789-803*

R

Ramakrishnan, K., Stipetic, S., Gobbi, M., and Mastinu, G., Optimal Sizing of Traction Motors Using Scalable Electric Machine Model; *TTE March 2018 314-321*

Rana, R., Prakash, S., and Mishra, S., Energy Management of Electric Vehicle Integrated Home in a Time-of-Day Regime; *TTE Sept. 2018 804-816*

Rao, G., *see* Maharjan, L., *TTE Dec. 2018 835-856*

Rashed, M., *see* Bozhko, S., *TTE Dec. 2018 985-996*

Reid, M.L., *see* Vore, S.E., *TTE March 2018 184-189*

Risesh, A.E., Nee, H., and Goupil, C., Electrical Power Conditioning System for Thermoelectric Waste Heat Recovery in Commercial Vehicles; *TTE June 2018 548-562*

Ronanki, D., and Williamson, S.S., Evolution of Power Converter Topologies and Technical Considerations of Power Electronic Transformer-Based Rolling Stock Architectures; *TTE March 2018 211-219*

Ronanki, D., and Williamson, S.S., Modular Multilevel Converters for Transportation Electrification: Challenges and Opportunities; *TTE June 2018 399-407*

Rouzbehi, K., *see* Moradi CheshmehBeigi, H., *TTE Dec. 2018 877-887*

Ruvio, A., *see* Graber, G., *TTE June 2018 616-625*

S

Saini, D.K., Nair, R., Yadav, M., and Prasad, R., Modified Algorithm for Fault Detection on AC Electrical Traction Line: An Indian Climate Case Study; *TTE Dec. 2018 936-950*

Saket Tokaldani, M.A., *see* Shafiei, N., *TTE March 2018 108-121*

Sarlioglu, B., *see* Min, S.G., *TTE March 2018 292-302*

Sarlioglu, B., *see* Min, S.G., *TTE June 2018 517-524*

Sarlioglu, B., *see* Lee, W., *TTE Sept. 2018 684-693*

Satpathi, K., Ukil, A., and Pou, J., Short-Circuit Fault Management in DC Electric Ship Propulsion System: Protection Requirements, Review of Existing Technologies and Future Research Trends; *TTE March 2018 272-291*

Satpathi, K., Ukil, A., Pou, J., and Zagrodnik, M.A., Design, Analysis, and Comparison of Automatic Flux Regulator With Automatic Voltage Regulator-Based Generation System for DC Marine Vessels; *TTE Sept. 2018 694-706*

Sauer, D.U., *see* Nemeth, T., *TTE Dec. 2018 888-900*

Shafiei, N., Ordonez, M., Saket Tokaldani, M.A., and Arefifar, S.A., PV Battery Charger Using an L3C Resonant Converter for Electric Vehicle Applications; *TTE March 2018 108-121*

Shahzad, M.I., Iqbal, S., and Taib, S., Interleaved LLC Converter With Cascaded Voltage-Doubler Rectifiers for Deeply Depleted PEV Battery Charging; *TTE March 2018 89-98*

Shamsi, P., *see* Maharjan, L., *TTE Dec. 2018 835-856*

Shehab El Din, M., Hussein, A.A., and Abdel-Hafez, M.F., Improved Battery SOC Estimation Accuracy Using a Modified UKF With an Adaptive Cell Model Under Real EV Operating Conditions; *TTE June 2018 408-417*

Sindi, E., Wang, L.Y., Polis, M., Yin, G., and Ding, L., Distributed Optimal Power and Voltage Management in DC Microgrids: Applications to Dual-Source Trolleybus Systems; *TTE Sept. 2018 778-788*

Singh, S.K., *see* Deepankar, ., *TTE Sept. 2018 732-743*

Skowronska, A.G., *see* Masrur, M.A., *TTE March 2018 157-171*

Snyder, A., *see* Duan, C., *TTE June 2018 432-443*

Song, Y., *see* Zhang, H., *TTE Sept. 2018 789-803*

Stipetic, S., *see* Ramakrishnan, K., *TTE March 2018 314-321*

Sun, X., *see* Feng, D., *TTE Dec. 2018 961-970*

Sun, X., *see* Feng, D., *TTE June 2018 389-398*

Sztykiel, M., *see* Jones, C.E., *TTE Sept. 2018 660-670*

T

Taib, S., *see* Shahzad, M.I., *TTE March 2018 89-98*

Takbashi, A., Ibrahim, M., Masisi, L., and Pillay, P., Core Loss Calculation in a Variable Flux Permanent Magnet Machine for Electrified Transportation; *TTE Dec. 2018 857-866*

Takbashi, A., Ibrahim, M., and Pillay, P., Design Optimization of a Spoke-Type Variable Flux Motor Using AlNiCo for Electrified Transportation; *TTE June 2018 536-547*

Tan, L., *see* Ali, S.Q., *TTE June 2018 344-354*

Tarek, M.T.B., *see* Choi, S., *TTE June 2018 444-463*

Thike, R., and Pillay, P., Characterization of a Variable Flux Machine for Transportation Using a Vector-Controlled Drive; *TTE June 2018 494-505*

Thiringer, T., *see* Andersson, A., *TTE June 2018 464-473*

Toliyat, H.A., *see* Anvari, B., *TTE March 2018 322-329*

Toliyat, H.A., *see* Choi, S., *TTE June 2018 444-463*

Tricoli, P., *see* D'Arco, S., *TTE Dec. 2018 951-960*

U

Ukil, A., *see* Satpathi, K., *TTE March 2018 272-291*

Ukil, A., *see* Satpathi, K., *TTE Sept. 2018 694-706*

V

Vandiver, J.C., *see* Masrur, M.A., *TTE March 2018 157-171*

Verdicchio, A., Ladoux, P., Caron, H., and Courtois, C., New Medium-Voltage DC Railway Electrification System; *TTE June 2018 591-604*

Vore, S.E., Kosowski, M., Reid, M.L., Wilkins, Z., Minicucci, J., and Bradley, T.H., Measurement of Medium-Duty Plug-In Hybrid Electric Vehicle Fuel Economy Sensitivity to Ambient Temperature; *TTE March 2018 184-189*

W

Wang, C., *see* Chen, J., *TTE June 2018 563-576*

Wang, C., *see* Duan, C., *TTE June 2018 432-443*

Wang, G., *see* Zhang, G., *TTE March 2018 330-339*

Wang, H., *see* Hsieh, H., *TTE June 2018 376-388*

Wang, J., *see* Homayouni, H., *TTE June 2018 418-431*

Wang, J., *see* Xie, R., *TTE Sept. 2018 817-830*

Wang, K., Hu, H., Zheng, Z., He, Z., and Chen, L., Study on Power Factor Behavior in High-Speed Railways Considering Train Timetable; *TTE March 2018 220-231*

Wang, L.Y., *see* Sindi, E., *TTE Sept. 2018 778-788*

Wang, P., *see* An, B., *TTE June 2018 577-590*

Wang, S., *see* Maharjan, L., *TTE Dec. 2018 835-856*

Wang, S., *see* Duan, C., *TTE June 2018 432-443*

Wang, W., *see* Maharjan, L., *TTE Dec. 2018 835-856*

Wang, Y., *see* Kavil Kambrath, J., *TTE March 2018 249-271*

Wang, Y., *see* Yao, Y., *TTE Sept. 2018 767-777*

Wang, Z., *see* Feng, D., *TTE June 2018 389-398*

Wei, W., *see* Xie, R., *TTE Sept. 2018 817-830*

Weston, P., *see* Xu, G., *TTE June 2018 605-615*

Wheeler, P., *see* Bozhko, S., *TTE Dec. 2018 985-996*

Wilkins, Z., *see* Vore, S.E., *TTE March 2018 184-189*

Williamson, S.S., *see* Ronanki, D., *TTE March 2018 211-219*

Williamson, S.S., *see* Ronanki, D., *TTE June 2018 399-407*

Wilson, G., *see* Kavil Kambrath, J., *TTE March 2018 249-271*

Wu, M., *see* Maharjan, L., *TTE Dec. 2018 835-856*

X

Xie, B., *see* An, B., *TTE June 2018 577-590*

Xie, R., Wei, W., Khodayar, M.E., Wang, J., and Mei, S., Planning Fully Renewable Powered Charging Stations on Highways: A Data-Driven Robust Optimization Approach; *TTE Sept. 2018 817-830*

Xu, D., *see* Zhang, G., *TTE March 2018 330-339*

Xu, D., *see* Yao, Y., *TTE Sept. 2018 767-777*

Xu, G., Weston, P., and Hillmansen, S., Distributed Insulation Monitoring for U.K. 650-V Railway Signaling Power Supplies Using Rectified Current Difference Pattern Tracking; *TTE June 2018 605-615*

Xu, Q., *see* Li, Y., *TTE June 2018 364-375*

Xu, Z., *see* Bozhko, S., *TTE Dec. 2018 985-996*

Y

- Yadav, M.**, see Saini, D.K., *TTE Dec. 2018 936-950*
- Yang, T.**, see Bozhko, S., *TTE Dec. 2018 985-996*
- Yang, Z.**, Patil, D., and Fahimi, B., Online Estimation of Capacity Fade and Power Fade of Lithium-Ion Batteries Based on Input–Output Response Technique; *TTE March 2018 147-156*
- Yao, Y.**, Wang, Y., Liu, X., and Xu, D., Analysis, Design, and Optimization of LC/S Compensation Topology With Excellent Load-Independent Voltage Output for Inductive Power Transfer; *TTE Sept. 2018 767-777*
- Yi, F.**, see Maharjan, L., *TTE Dec. 2018 835-856*
- Yin, G.**, see Sindi, E., *TTE Sept. 2018 778-788*
- Yoon, Y.**, see Kavil Kambrath, J., *TTE March 2018 249-271*
- Youssef, T.**, see Faddel, S., *TTE Dec. 2018 971-984*
- Yuan, B.**, see Zhang, G., *TTE March 2018 330-339*

Z

- Zagrodnik, M.A.**, see Satpathi, K., *TTE Sept. 2018 694-706*
- Zhang, G.**, Wang, G., Yuan, B., Liu, R., and Xu, D., Active Disturbance Rejection Control Strategy for Signal Injection-Based Sensorless IPMSM Drives; *TTE March 2018 330-339*
- Zhang, H.**, Moura, S.J., Hu, Z., Qi, W., and Song, Y., Joint PEV Charging Network and Distributed PV Generation Planning Based on Accelerated Generalized Benders Decomposition; *TTE Sept. 2018 789-803*
- Zhang, K.**, see Jafari, M., *TTE March 2018 122-134*
- Zhang, Y.**, Ai, Z., and Feng, Y., Study on Electric Sunroof Pinch Detection of Cars Based on Model Reference Adaptive Cholesky Decomposition Filter; *TTE March 2018 190-201*
- Zhang, Y.**, see Zhang, Y., *TTE March 2018 190-201*
- Zhang, Z.**, see An, B., *TTE June 2018 577-590*
- Zhao, S.**, see Jafari, M., *TTE March 2018 122-134*
- Zhao, X.**, Ke, B., and Lian, K., Optimization of Train Speed Curve for Energy Saving Using Efficient and Accurate Electric Traction Models on the Mass Rapid Transit System; *TTE Dec. 2018 922-935*
- Zheng, Z.**, see Wang, K., *TTE March 2018 220-231*
- Zhu, M.**, Hu, W., and Kar, N.C., Acoustic Noise-Based Uniform Permanent-Magnet Demagnetization Detection in SPMSM for High-Performance PMSM Drive; *TTE March 2018 303-313*
- Zou, S.**, see Lu, J., *TTE March 2018 99-107*
- Zou, S.**, Lu, J., Mallik, A., and Khaligh, A., Modeling and Optimization of an Integrated Transformer for Electric Vehicle On-Board Charger Applications; *TTE June 2018 355-363*

SUBJECT INDEX

A

- AC generators**
Electrical Power Generation in Aircraft: Review, Challenges, and Opportunities. *Madonna, V.*, +, *TTE Sept. 2018 646-659*
- AC machines**
Fault Diagnosis Techniques for Permanent Magnet AC Machine and Drives—A Review of Current State of the Art. *Choi, S.*, +, *TTE June 2018 444-463*
- AC-DC power converters**
Variable DC-Link Control Loop Design for an Integrated Two-Stage AC/DC Converter. *Lu, J.*, +, *TTE March 2018 99-107*
- Acoustic noise**
Acoustic Noise-Based Uniform Permanent-Magnet Demagnetization Detection in SPMSM for High-Performance PMSM Drive. *Zhu, M.*, +, *TTE March 2018 303-313*
- Acoustic signal processing**
Acoustic Noise-Based Uniform Permanent-Magnet Demagnetization Detection in SPMSM for High-Performance PMSM Drive. *Zhu, M.*, +, *TTE March 2018 303-313*
- Actuators**
A Review of Integrated Motor Drive and Wide-Bandgap Power Electronics for High-Performance Electro-Hydrostatic Actuators. *Lee, W.*, +, *TTE Sept. 2018 684-693*

+ Check author entry for co-authors

Adaptive Kalman filters

- Study on Electric Sunroof Pinch Detection of Cars Based on Model Reference Adaptive Cholesky Decomposition Filter. *Zhang, Y.*, +, *TTE March 2018 190-201*

Aerospace engineering

- Development of Aircraft Electric Starter–Generator System Based on Active Rectification Technology. *Bozhko, S.*, +, *TTE Dec. 2018 985-996*

Aerospace materials

- Electrical and Thermal Effects of Fault Currents in Aircraft Electrical Power Systems With Composite Aerostructures. *Jones, C.E.*, +, *TTE Sept. 2018 660-670*

Aging

- Electric Vehicle Battery Cycle Aging Evaluation in Real-World Daily Driving and Vehicle-to-Grid Services. *Jafari, M.*, +, *TTE March 2018 122-134*

Air gaps

- Modeling and Investigation on Electromagnetic Noise in PM Motors With Single- and Double-Layer Concentrated Winding for EV and HEV Application. *Min, S.G.*, +, *TTE March 2018 292-302*

- Numerical and Experimental Investigation of an Improved Flux Path Brushless-DC Machine for Variable Speed Applications. *Moradi CheshmehBeigi, H.*, +, *TTE Dec. 2018 877-887*

Air pollution control

- Measurement of Medium-Duty Plug-In Hybrid Electric Vehicle Fuel Economy Sensitivity to Ambient Temperature. *Vore, S.E.*, +, *TTE March 2018 184-189*

Aircraft

- Development of Aircraft Electric Starter–Generator System Based on Active Rectification Technology. *Bozhko, S.*, +, *TTE Dec. 2018 985-996*
- Electrical and Thermal Effects of Fault Currents in Aircraft Electrical Power Systems With Composite Aerostructures. *Jones, C.E.*, +, *TTE Sept. 2018 660-670*

Aircraft power systems

- Electrical and Thermal Effects of Fault Currents in Aircraft Electrical Power Systems With Composite Aerostructures. *Jones, C.E.*, +, *TTE Sept. 2018 660-670*
- Electrical Power Generation in Aircraft: Review, Challenges, and Opportunities. *Madonna, V.*, +, *TTE Sept. 2018 646-659*
- Investigation on the Selection of Electric Power System Architecture for Future More Electric Aircraft. *Chen, J.*, +, *TTE June 2018 563-576*

Angular velocity control

- Active Disturbance Rejection Control Strategy for Signal Injection-Based Sensorless IPMSM Drives. *Zhang, G.*, +, *TTE March 2018 330-339*

Ant colony optimization

- Smart Charging Strategy for Electric Vehicle Charging Stations. *Moghaddam, Z.*, +, *TTE March 2018 76-88*

Automobile industry

- Energy Management of Electric Vehicle Integrated Home in a Time-of-Day Regime. *Rana, R.*, +, *TTE Sept. 2018 804-816*

Automotive components

- Study on Electric Sunroof Pinch Detection of Cars Based on Model Reference Adaptive Cholesky Decomposition Filter. *Zhang, Y.*, +, *TTE March 2018 190-201*

Automotive electronics

- Study on Electric Sunroof Pinch Detection of Cars Based on Model Reference Adaptive Cholesky Decomposition Filter. *Zhang, Y.*, +, *TTE March 2018 190-201*

B

Backpropagation

- Acoustic Noise-Based Uniform Permanent-Magnet Demagnetization Detection in SPMSM for High-Performance PMSM Drive. *Zhu, M.*, +, *TTE March 2018 303-313*

Batteries

- A Simulation Platform for Optimization of Electric Vehicles With Modular Drivetrain Topologies. *Nemeth, T.*, +, *TTE Dec. 2018 888-900*
- An Automated Charger for Large-Scale Adoption of Electric Vehicles. *Faddel, S.*, +, *TTE Dec. 2018 971-984*

Battery chargers

- A Stochastic Method for Prediction of the Power Demand at High Rate EV Chargers. *Hilton, G.*, +, *TTE Sept. 2018 744-756*
- Energy Management of Electric Vehicle Integrated Home in a Time-of-Day Regime. *Rana, R.*, +, *TTE Sept. 2018 804-816*
- LLC Charger Using Quasi-Contactless Power Transfer by Resonant Magnetic Induction Coupling. *Hsieh, H.*, +, *TTE June 2018 376-388*
- PV Battery Charger Using an L3C Resonant Converter for Electric Vehicle Applications. *Shafiei, N.*, +, *TTE March 2018 108-121*
- Smart Charging Strategy for Electric Vehicle Charging Stations. *Moghaddam, Z.*, +, *TTE March 2018 76-88*
- Torque Cancellation of Integrated Battery Charger Based on Six-Phase Permanent Magnet Synchronous Motor Drives for Electric Vehicles. *Ali, S.Q.*, +, *TTE June 2018 344-354*

Battery management systems

- A Solar Power-Assisted Battery Balancing System for Electric Vehicles. *Duan, C.*, +, *TTE June 2018 432-443*
- Electric Vehicle Battery Cycle Aging Evaluation in Real-World Daily Driving and Vehicle-to-Grid Services. *Jafari, M.*, +, *TTE March 2018 122-134*
- State of Health Estimation of Lithium-Ion Batteries Using Capacity Fade and Internal Resistance Growth Models. *Guha, A.*, +, *TTE March 2018 135-146*

Battery powered vehicles

- A Solar Power-Assisted Battery Balancing System for Electric Vehicles. *Duan, C.*, +, *TTE June 2018 432-443*
- A Stochastic Method for Prediction of the Power Demand at High Rate EV Chargers. *Hilton, G.*, +, *TTE Sept. 2018 744-756*
- Analysis and Design of Load-Independent Output Current or Output Voltage of a Three-Coil Wireless Power Transfer System. *Li, Y.*, +, *TTE June 2018 364-375*
- Electric Vehicle Battery Cycle Aging Evaluation in Real-World Daily Driving and Vehicle-to-Grid Services. *Jafari, M.*, +, *TTE March 2018 122-134*
- Energy Management of Electric Vehicle Integrated Home in a Time-of-Day Regime. *Rana, R.*, +, *TTE Sept. 2018 804-816*
- Interleaved LLC Converter With Cascaded Voltage-Doubler Rectifiers for Deeply Depleted PEV Battery Charging. *Shahzad, M.I.*, +, *TTE March 2018 89-98*
- Military-Based Vehicle-to-Grid and Vehicle-to-Vehicle Microgrid—System Architecture and Implementation. *Masrur, M.A.*, +, *TTE March 2018 157-171*
- Modeling and Optimization of an Integrated Transformer for Electric Vehicle On-Board Charger Applications. *Zou, S.*, +, *TTE June 2018 355-363*
- Modular Multilevel Converters for Transportation Electrification: Challenges and Opportunities. *Ronanki, D.*, +, *TTE June 2018 399-407*
- Smart Charging Strategy for Electric Vehicle Charging Stations. *Moghaddam, Z.*, +, *TTE March 2018 76-88*
- Techno-economic Sizing of Auxiliary-Battery-Based Substations in DC Railway Systems. *Graber, G.*, +, *TTE June 2018 616-625*
- Torque Cancellation of Integrated Battery Charger Based on Six-Phase Permanent Magnet Synchronous Motor Drives for Electric Vehicles. *Ali, S.Q.*, +, *TTE June 2018 344-354*
- Whole-Day Driving Prediction Control Strategy: Analysis on Real-World Drive Cycles. *Palcu, P.*, +, *TTE March 2018 172-183*
- Wireless Power Transfer for Vehicular Applications: Overview and Challenges. *Patil, D.*, +, *TTE March 2018 3-37*

Battery storage plants

- Military-Based Vehicle-to-Grid and Vehicle-to-Vehicle Microgrid—System Architecture and Implementation. *Masrur, M.A.*, +, *TTE March 2018 157-171*

Bayes methods

- Optimization Method With Prediction-Based Maintenance Strategy for Traction Power Supply Equipment Based on Risk Quantification. *Feng, D.*, +, *TTE Dec. 2018 961-970*

Belief networks

- Failure Risk Interval Estimation of Traction Power Supply Equipment Considering the Impact of Multiple Factors. *Feng, D.*, +, *TTE June 2018 389-398*

Bifurcation

- A Fixed-Frequency Optimization of PWM Current Controller—Modeling and Design of Control Parameters. *Gavagsaz-Ghoachani, R.*, +, *TTE Sept. 2018 671-683*

Braking

- Techno-economic Sizing of Auxiliary-Battery-Based Substations in DC Railway Systems. *Graber, G.*, +, *TTE June 2018 616-625*

Brushless DC motors

- Numerical and Experimental Investigation of an Improved Flux Path Brushless-DC Machine for Variable Speed Applications. *Moradi CheshmehBeigi, H.*, +, *TTE Dec. 2018 877-887*

Building integrated photovoltaics

- PV Battery Charger Using an L3C Resonant Converter for Electric Vehicle Applications. *Shafiei, N.*, +, *TTE March 2018 108-121*

C**Capacitance**

- Modified Algorithm for Fault Detection on AC Electrical Traction Line: An Indian Climate Case Study. *Saini, D.K.*, +, *TTE Dec. 2018 936-950*

Carbon fiber reinforced plastics

- Electrical and Thermal Effects of Fault Currents in Aircraft Electrical Power Systems With Composite Aerostructures. *Jones, C.E.*, +, *TTE Sept. 2018 660-670*

Circuit faults

- Optimization Method With Prediction-Based Maintenance Strategy for Traction Power Supply Equipment Based on Risk Quantification. *Feng, D.*, +, *TTE Dec. 2018 961-970*

Closed loop systems

- A Versatile Power-Hardware-in-the-Loop-Based Emulator for Rapid Testing of Transportation Electric Drives. *Amitkumar, K.S.*, +, *TTE Dec. 2018 901-911*
- Integrated Dual-Output L-Z Source Inverter for Hybrid Electric Vehicle. *Deepankar, .*, +, *TTE Sept. 2018 732-743*

Coils

- Analysis and Design of Load-Independent Output Current or Output Voltage of a Three-Coil Wireless Power Transfer System. *Li, Y.*, +, *TTE June 2018 364-375*
- Compact Double-Sided Decoupled Coils-Based WPT Systems for High-Power Applications: Analysis, Design, and Experimental Verification. *Li, Y.*, +, *TTE March 2018 64-75*

Computational modeling

- A System-Level FPGA-Based Hardware-in-the-Loop Test of High-Speed Train. *Liu, C.*, +, *TTE Dec. 2018 912-921*

Condition monitoring

- Distributed Insulation Monitoring for U.K. 650-V Railway Signaling Power Supplies Using Rectified Current Difference Pattern Tracking. *Xu, G.*, +, *TTE June 2018 605-615*
- Electrical and Thermal Effects of Fault Currents in Aircraft Electrical Power Systems With Composite Aerostructures. *Jones, C.E.*, +, *TTE Sept. 2018 660-670*
- Fault Diagnosis Techniques for Permanent Magnet AC Machine and Drives—A Review of Current State of the Art. *Choi, S.*, +, *TTE June 2018 444-463*
- State of Health Estimation of Lithium-Ion Batteries Using Capacity Fade and Internal Resistance Growth Models. *Guha, A.*, +, *TTE March 2018 135-146*

Conformal mapping

- Modeling and Investigation on Electromagnetic Noise in PM Motors With Single- and Double-Layer Concentrated Winding for EV and HEV Application. *Min, S.G.*, +, *TTE March 2018 292-302*

Continuous time systems

- A Fixed-Frequency Optimization of PWM Current Controller—Modeling and Design of Control Parameters. *Gavagsaz-Ghoachani, R.*, +, *TTE Sept. 2018 671-683*

Control system synthesis

- A Fixed-Frequency Optimization of PWM Current Controller—Modeling and Design of Control Parameters. *Gavagsaz-Ghoachani, R.*, +, *TTE Sept. 2018 671-683*
- Active Disturbance Rejection Control Strategy for Signal Injection-Based Sensorless IPMSM Drives. *Zhang, G.*, +, *TTE March 2018 330-339*

Control systems

- An Automated Charger for Large-Scale Adoption of Electric Vehicles. *Faddel, S.*, +, *TTE Dec. 2018 971-984*

Controller area networks

- Measurement of Medium-Duty Plug-In Hybrid Electric Vehicle Fuel Economy Sensitivity to Ambient Temperature. *Vore, S.E.*, +, *TTE March 2018 184-189*

Core loss

- Core Loss Calculation in a Variable Flux Permanent Magnet Machine for Electrified Transportation. *Takbashi, A.*, +, *TTE Dec. 2018 857-866*

Cost reduction

Techno-economic Sizing of Auxiliary-Battery-Based Substations in DC Railway Systems. *Graber, G.*, +, *TTE June 2018 616-625*

Couplings

A Versatile Power-Hardware-in-the-Loop-Based Emulator for Rapid Testing of Transportation Electric Drives. *Amitkumar, K.S.*, +, *TTE Dec. 2018 901-911*

Current control

A Versatile Power-Hardware-in-the-Loop-Based Emulator for Rapid Testing of Transportation Electric Drives. *Amitkumar, K.S.*, +, *TTE Dec. 2018 901-911*

D**Damping**

Modeling and Control of Marine Diesel Generator System With Active Protection. *Kavil Kambrath, J.*, +, *TTE March 2018 249-271*

Data analysis

Measurement of Medium-Duty Plug-In Hybrid Electric Vehicle Fuel Economy Sensitivity to Ambient Temperature. *Vore, S.E.*, +, *TTE March 2018 184-189*

DC generators

Electrical Power Generation in Aircraft: Review, Challenges, and Opportunities. *Madonna, V.*, +, *TTE Sept. 2018 646-659*

DC-AC power converters

Military-Based Vehicle-to-Grid and Vehicle-to-Vehicle Microgrid—System Architecture and Implementation. *Masrur, M.A.*, +, *TTE March 2018 157-171*

DC-DC power converters

A Simulation Platform for Optimization of Electric Vehicles With Modular Drivetrain Topologies. *Nemeth, T.*, +, *TTE Dec. 2018 888-900*

Integrated Dual-Output L-Z Source Inverter for Hybrid Electric Vehicle. *Deepankar, .*, +, *TTE Sept. 2018 732-743*

Interleaved LLC Converter With Cascaded Voltage-Doubler Rectifiers for Deeply Depleted PEV Battery Charging. *Shahzad, M.I.*, +, *TTE March 2018 89-98*

Demagnetization

Acoustic Noise-Based Uniform Permanent-Magnet Demagnetization Detection in SPMSM for High-Performance PMSM Drive. *Zhu, M.*, +, *TTE March 2018 303-313*

Braking a Variable Flux-Intensifying IPMSM in Minimal Time. *Aljehaimi, A.M.*, +, *TTE Dec. 2018 867-876*

Characterization of a Variable Flux Machine for Transportation Using a Vector-Controlled Drive. *Thike, R.*, +, *TTE June 2018 494-505*

Core Loss Calculation in a Variable Flux Permanent Magnet Machine for Electrified Transportation. *Takbashi, A.*, +, *TTE Dec. 2018 857-866*

Operating Envelopes of the Variable-Flux Machine With Positive Reluctance Torque. *Aljehaimi, A.M.*, +, *TTE Sept. 2018 707-719*

Density measurement

Comprehensive Report on Design and Development of a 100-kW DSSRM. *Maharjan, L.*, +, *TTE Dec. 2018 835-856*

Design engineering

Study on Electric Sunroof Pinch Detection of Cars Based on Model Reference Adaptive Cholesky Decomposition Filter. *Zhang, Y.*, +, *TTE March 2018 190-201*

Diesel engines

Modeling and Control of Marine Diesel Generator System With Active Protection. *Kavil Kambrath, J.*, +, *TTE March 2018 249-271*

Diesel-electric generators

Modeling and Control of Marine Diesel Generator System With Active Protection. *Kavil Kambrath, J.*, +, *TTE March 2018 249-271*

Short-Circuit Fault Management in DC Electric Ship Propulsion System: Protection Requirements, Review of Existing Technologies and Future Research Trends. *Saipathi, K.*, +, *TTE March 2018 272-291*

Distributed control

Distributed Optimal Power and Voltage Management in DC Microgrids: Applications to Dual-Source Trolleybus Systems. *Sindi, E.*, +, *TTE Sept. 2018 778-788*

Distributed power generation

Distributed Optimal Power and Voltage Management in DC Microgrids: Applications to Dual-Source Trolleybus Systems. *Sindi, E.*, +, *TTE Sept. 2018 778-788*

Joint PEV Charging Network and Distributed PV Generation Planning Based on Accelerated Generalized Benders Decomposition. *Zhang, H.*, +, *TTE Sept. 2018 789-803*

Military-Based Vehicle-to-Grid and Vehicle-to-Vehicle Microgrid—System Architecture and Implementation. *Masrur, M.A.*, +, *TTE March 2018 157-171*

Distribution networks

Distributed Insulation Monitoring for U.K. 650-V Railway Signaling Power Supplies Using Rectified Current Difference Pattern Tracking. *Xu, G.*, +, *TTE June 2018 605-615*

Distributed Optimal Power and Voltage Management in DC Microgrids: Applications to Dual-Source Trolleybus Systems. *Sindi, E.*, +, *TTE Sept. 2018 778-788*

Joint PEV Charging Network and Distributed PV Generation Planning Based on Accelerated Generalized Benders Decomposition. *Zhang, H.*, +, *TTE Sept. 2018 789-803*

Drives

Fault Diagnosis Techniques for Permanent Magnet AC Machine and Drives—A Review of Current State of the Art. *Choi, S.*, +, *TTE June 2018 444-463*

E**Earthing**

Distributed Insulation Monitoring for U.K. 650-V Railway Signaling Power Supplies Using Rectified Current Difference Pattern Tracking. *Xu, G.*, +, *TTE June 2018 605-615*

Electrical and Thermal Effects of Fault Currents in Aircraft Electrical Power Systems With Composite Aerostructures. *Jones, C.E.*, +, *TTE Sept. 2018 660-670*

Modeling and Simulation of AC Railway Electric Supply Lines Including Ground Return. *Ceraolo, M.*, *TTE March 2018 202-210*

Eddy current losses

Advantages and Characteristic Analysis of Slotless Rotary PM Machines in Comparison With Conventional Laminated Design Using Statistical Technique. *Min, S.G.*, +, *TTE June 2018 517-524*

Eigenvalues and eigenfunctions

A Fixed-Frequency Optimization of PWM Current Controller—Modeling and Design of Control Parameters. *Gavagsaz-Ghoachani, R.*, +, *TTE Sept. 2018 671-683*

Electric current control

A Fixed-Frequency Optimization of PWM Current Controller—Modeling and Design of Control Parameters. *Gavagsaz-Ghoachani, R.*, +, *TTE Sept. 2018 671-683*

Power Electronic Converter-Based Induction Motor Emulator Including Main and Leakage Flux Saturation. *Masadeh, M.A.*, +, *TTE June 2018 483-493*

Variable DC-Link Control Loop Design for an Integrated Two-Stage AC/DC Converter. *Lu, J.*, +, *TTE March 2018 99-107*

Electric machine analysis computing

Acoustic Noise-Based Uniform Permanent-Magnet Demagnetization Detection in SPMSM for High-Performance PMSM Drive. *Zhu, M.*, +, *TTE March 2018 303-313*

Emulation of a Permanent-Magnet Synchronous Generator in Real-Time Using Power Hardware-in-the-Loop. *Kaarthik, R.S.*, +, *TTE June 2018 474-482*

Multicriteria PM Motor Design Based on ANFIS Evaluation of EV Driving Cycle Efficiency. *Krasopoulos, C.T.*, +, *TTE June 2018 525-535*

Electric power generation

Electrical Power Generation in Aircraft: Review, Challenges, and Opportunities. *Madonna, V.*, +, *TTE Sept. 2018 646-659*

Electric propulsion

Detection and Isolation of Interturn Faults in Inductors of LCL Filter for Marine Electric Propulsion System. *Chandar A., S.*, +, *TTE March 2018 232-248*

Electric vehicle charging

An Automated Charger for Large-Scale Adoption of Electric Vehicles. *Faddel, S.*, +, *TTE Dec. 2018 971-984*

Analysis and Design of Load-Independent Output Current or Output Voltage of a Three-Coil Wireless Power Transfer System. *Li, Y.*, +, *TTE June 2018 364-375*

Compact Double-Sided Decoupled Coils-Based WPT Systems for High-Power Applications: Analysis, Design, and Experimental Verification. *Li, Y.*, +, *TTE March 2018 64-75*

Energy Management of Electric Vehicle Integrated Home in a Time-of-Day Regime. *Rana, R.*, +, *TTE Sept. 2018 804-816*

PV Battery Charger Using an L3C Resonant Converter for Electric Vehicle Applications. *Shafiei, N.*, +, *TTE March 2018 108-121*

Smart Charging Strategy for Electric Vehicle Charging Stations. *Moghaddam, Z.*, +, *TTE March 2018 76-88*

Wireless Power Transfer for Vehicular Applications: Overview and Challenges. *Patil, D.*, +, *TTE March 2018 3-37*

Electric vehicles

- A Comprehensive Review of Wireless Charging Technologies for Electric Vehicles. *Ahmad, A.*, +, *TTE March 2018 38-63*
- A Simulation Platform for Optimization of Electric Vehicles With Modular Drivetrain Topologies. *Nemeth, T.*, +, *TTE Dec. 2018 888-900*
- An Automated Charger for Large-Scale Adoption of Electric Vehicles. *Faddel, S.*, +, *TTE Dec. 2018 971-984*
- Design Optimization of a Spoke-Type Variable Flux Motor Using AlNiCo for Electrified Transportation. *Takbash, A.*, +, *TTE June 2018 536-547*
- Development of Aircraft Electric Starter-Generator System Based on Active Rectification Technology. *Bozhko, S.*, +, *TTE Dec. 2018 985-996*
- Electrical Power Conditioning System for Thermoelectric Waste Heat Recovery in Commercial Vehicles. *Risseh, A.E.*, +, *TTE June 2018 548-562*
- Improved Battery SOC Estimation Accuracy Using a Modified UKF With an Adaptive Cell Model Under Real EV Operating Conditions. *Shehab El Din, M.*, +, *TTE June 2018 408-417*
- Joint PEV Charging Network and Distributed PV Generation Planning Based on Accelerated Generalized Benders Decomposition. *Zhang, H.*, +, *TTE Sept. 2018 789-803*
- Multicriteria PM Motor Design Based on ANFIS Evaluation of EV Driving Cycle Efficiency. *Krasopoulos, C.T.*, +, *TTE June 2018 525-535*
- Operating Envelopes of the Variable-Flux Machine With Positive Reluctance Torque. *Aljehaimi, A.M.*, +, *TTE Sept. 2018 707-719*
- Optimal Sizing of Traction Motors Using Scalable Electric Machine Model. *Ramakrishnan, K.*, +, *TTE March 2018 314-321*
- Planning Fully Renewable Powered Charging Stations on Highways: A Data-Driven Robust Optimization Approach. *Xie, R.*, +, *TTE Sept. 2018 817-830*
- Torque Characterization of a Synchronous Reluctance Machine Using an Analytical Model. *Maroufian, S.S.*, +, *TTE June 2018 506-516*

Electrical faults

- Electrical and Thermal Effects of Fault Currents in Aircraft Electrical Power Systems With Composite Aerostructures. *Jones, C.E.*, +, *TTE Sept. 2018 660-670*

Electrochemical impedance spectroscopy

- State of Health Estimation of Lithium-Ion Batteries Using Capacity Fade and Internal Resistance Growth Models. *Guha, A.*, +, *TTE March 2018 135-146*
- Voltage Reduction Technique for Use With Electrochemical Impedance Spectroscopy in High-Voltage Fuel Cell and Battery Systems. *Homayouni, H.*, +, *TTE June 2018 418-431*

Electrohydraulic control equipment

- A Review of Integrated Motor Drive and Wide-Bandgap Power Electronics for High-Performance Electro-Hydrostatic Actuators. *Lee, W.*, +, *TTE Sept. 2018 684-693*

Electromagnetic analysis

- Comprehensive Report on Design and Development of a 100-kW DSSRM. *Maharjan, L.*, +, *TTE Dec. 2018 835-856*

Electromechanical effects

- Modeling and Control of Marine Diesel Generator System With Active Protection. *Kavil Kambrath, J.*, +, *TTE March 2018 249-271*

Emulation

- A Versatile Power-Hardware-in-the-Loop-Based Emulator for Rapid Testing of Transportation Electric Drives. *Amitkumar, K.S.*, +, *TTE Dec. 2018 901-911*

Energy conservation

- Optimization of Train Speed Curve for Energy Saving Using Efficient and Accurate Electric Traction Models on the Mass Rapid Transit System. *Zhao, X.*, +, *TTE Dec. 2018 922-935*

Energy consumption

- Modeling and Control of Marine Diesel Generator System With Active Protection. *Kavil Kambrath, J.*, +, *TTE March 2018 249-271*
- Optimization of Train Speed Curve for Energy Saving Using Efficient and Accurate Electric Traction Models on the Mass Rapid Transit System. *Zhao, X.*, +, *TTE Dec. 2018 922-935*
- Short-Circuit Fault Management in DC Electric Ship Propulsion System: Protection Requirements, Review of Existing Technologies and Future Research Trends. *Sapathi, K.*, +, *TTE March 2018 272-291*

Energy storage

- Comparative Analysis of Topologies to Integrate Photovoltaic Sources in the Feeder Stations of AC Railways. *D'Arco, S.*, +, *TTE Dec. 2018 951-960*
- Electric Vehicle Battery Cycle Aging Evaluation in Real-World Daily Driving and Vehicle-to-Grid Services. *Jafari, M.*, +, *TTE March 2018 122-134*

Engines

- Whole-Day Driving Prediction Control Strategy: Analysis on Real-World Drive Cycles. *Palcu, P.*, +, *TTE March 2018 172-183*

Estimation theory

- Study on Electric Sunroof Pinch Detection of Cars Based on Model Reference Adaptive Cholesky Decomposition Filter. *Zhang, Y.*, +, *TTE March 2018 190-201*

Exhaust systems

- Electrical Power Conditioning System for Thermoelectric Waste Heat Recovery in Commercial Vehicles. *Risseh, A.E.*, +, *TTE June 2018 548-562*

F**Failure (mechanical)**

- Failure Risk Interval Estimation of Traction Power Supply Equipment Considering the Impact of Multiple Factors. *Feng, D.*, +, *TTE June 2018 389-398*
- Modeling and Control of Marine Diesel Generator System With Active Protection. *Kavil Kambrath, J.*, +, *TTE March 2018 249-271*

Failure analysis

- Failure Risk Interval Estimation of Traction Power Supply Equipment Considering the Impact of Multiple Factors. *Feng, D.*, +, *TTE June 2018 389-398*

Fault diagnosis

- Detection and Isolation of Interturn Faults in Inductors of LCL Filter for Marine Electric Propulsion System. *Chandar A., S.*, +, *TTE March 2018 232-248*
- Electrical and Thermal Effects of Fault Currents in Aircraft Electrical Power Systems With Composite Aerostructures. *Jones, C.E.*, +, *TTE Sept. 2018 660-670*

- Fault Diagnosis Techniques for Permanent Magnet AC Machine and Drives—A Review of Current State of the Art. *Choi, S.*, +, *TTE June 2018 444-463*

- Short-Circuit Fault Management in DC Electric Ship Propulsion System: Protection Requirements, Review of Existing Technologies and Future Research Trends. *Sapathi, K.*, +, *TTE March 2018 272-291*

Fault location

- Distributed Insulation Monitoring for U.K. 650-V Railway Signaling Power Supplies Using Rectified Current Difference Pattern Tracking. *Xu, G.*, +, *TTE June 2018 605-615*

Fault tolerance

- Modular Multilevel Converters for Transportation Electrification: Challenges and Opportunities. *Ronanki, D.*, +, *TTE June 2018 399-407*

Feedback

- Active Disturbance Rejection Control Strategy for Signal Injection-Based Sensorless IPMSM Drives. *Zhang, G.*, +, *TTE March 2018 330-339*

Field programmable gate arrays

- A System-Level FPGA-Based Hardware-in-the-Loop Test of High-Speed Train. *Liu, C.*, +, *TTE Dec. 2018 912-921*

Filtering theory

- Study on Electric Sunroof Pinch Detection of Cars Based on Model Reference Adaptive Cholesky Decomposition Filter. *Zhang, Y.*, +, *TTE March 2018 190-201*

Finite element analysis

- A Versatile Power-Hardware-in-the-Loop-Based Emulator for Rapid Testing of Transportation Electric Drives. *Amitkumar, K.S.*, +, *TTE Dec. 2018 901-911*

- Advantages and Characteristic Analysis of Slotless Rotary PM Machines in Comparison With Conventional Laminated Design Using Statistical Technique. *Min, S.G.*, +, *TTE June 2018 517-524*

- Characterization of a Variable Flux Machine for Transportation Using a Vector-Controlled Drive. *Thike, R.*, +, *TTE June 2018 494-505*

- Compact Double-Sided Decoupled Coils-Based WPT Systems for High-Power Applications: Analysis, Design, and Experimental Verification. *Li, Y.*, +, *TTE March 2018 64-75*

- Design Optimization of a Spoke-Type Variable Flux Motor Using AlNiCo for Electrified Transportation. *Takbash, A.*, +, *TTE June 2018 536-547*

- Modeling and Investigation on Electromagnetic Noise in PM Motors With Single- and Double-Layer Concentrated Winding for EV and HEV Application. *Min, S.G.*, +, *TTE March 2018 292-302*

- Modeling and Optimization of an Integrated Transformer for Electric Vehicle On-Board Charger Applications. *Zou, S.*, +, *TTE June 2018 355-363*

Power Electronic Converter-Based Induction Motor Emulator Including Main and Leakage Flux Saturation. *Masadeh, M.A.*, +, *TTE June 2018 483-493*

Simultaneous Optimization of Geometry and Firing Angles for In-Wheel Switched Reluctance Motor Drive. *Anvari, B.*, +, *TTE March 2018 322-329*

Torque Cancellation of Integrated Battery Charger Based on Six-Phase Permanent Magnet Synchronous Motor Drives for Electric Vehicles. *Ali, S.Q.*, +, *TTE June 2018 344-354*

Torque Characterization of a Synchronous Reluctance Machine Using an Analytical Model. *Maroufian, S.S.*, +, *TTE June 2018 506-516*

Flywheels

Modeling and Control of Marine Diesel Generator System With Active Protection. *Kavil Kambrath, J.*, +, *TTE March 2018 249-271*

Frequency control

An Automated Charger for Large-Scale Adoption of Electric Vehicles. *Faddel, S.*, +, *TTE Dec. 2018 971-984*

Interleaved LLC Converter With Cascaded Voltage-Doubler Rectifiers for Deeply Depleted PEV Battery Charging. *Shahzad, M.I.*, +, *TTE March 2018 89-98*

LLC Charger Using Quasi-Contactless Power Transfer by Resonant Magnetic Induction Coupling. *Hsieh, H.*, +, *TTE June 2018 376-388*

Fuel economy

Measurement of Medium-Duty Plug-In Hybrid Electric Vehicle Fuel Economy Sensitivity to Ambient Temperature. *Vore, S.E.*, +, *TTE March 2018 184-189*

Military-Based Vehicle-to-Grid and Vehicle-to-Vehicle Microgrid—System Architecture and Implementation. *Masrur, M.A.*, +, *TTE March 2018 157-171*

Modeling and Control of Marine Diesel Generator System With Active Protection. *Kavil Kambrath, J.*, +, *TTE March 2018 249-271*

Multicriteria PM Motor Design Based on ANFIS Evaluation of EV Driving Cycle Efficiency. *Krasopoulos, C.T.*, +, *TTE June 2018 525-535*

Short-Circuit Fault Management in DC Electric Ship Propulsion System: Protection Requirements, Review of Existing Technologies and Future Research Trends. *Satpathi, K.*, +, *TTE March 2018 272-291*

Fuzzy reasoning

Multicriteria PM Motor Design Based on ANFIS Evaluation of EV Driving Cycle Efficiency. *Krasopoulos, C.T.*, +, *TTE June 2018 525-535*

G

Generators

Development of Aircraft Electric Starter–Generator System Based on Active Rectification Technology. *Bozhko, S.*, +, *TTE Dec. 2018 985-996*

Genetic algorithms

Modeling and Optimization of an Integrated Transformer for Electric Vehicle On-Board Charger Applications. *Zou, S.*, +, *TTE June 2018 355-363*

Simultaneous Optimization of Geometry and Firing Angles for In-Wheel Switched Reluctance Motor Drive. *Anvari, B.*, +, *TTE March 2018 322-329*

H

Hardware

A System-Level FPGA-Based Hardware-in-the-Loop Test of High-Speed Train. *Liu, C.*, +, *TTE Dec. 2018 912-921*

Hardware-in-the loop simulation

Emulation of a Permanent-Magnet Synchronous Generator in Real-Time Using Power Hardware-in-the-Loop. *Kaarthik, R.S.*, +, *TTE June 2018 474-482*

Hardware-software codesign

Real-Time Device-Level Simulation of MMC-Based MVDC Traction Power System on MPSoC. *Liang, T.*, +, *TTE June 2018 626-641*

Harmonic distortion

Variable DC-Link Control Loop Design for an Integrated Two-Stage AC/DC Converter. *Lu, J.*, +, *TTE March 2018 99-107*

Heat recovery

Electrical Power Conditioning System for Thermoelectric Waste Heat Recovery in Commercial Vehicles. *Risseh, A.E.*, +, *TTE June 2018 548-562*

High-voltage techniques

Modified Algorithm for Fault Detection on AC Electrical Traction Line: An Indian Climate Case Study. *Saini, D.K.*, +, *TTE Dec. 2018 936-950*

HVDC power converters

Real-Time Device-Level Simulation of MMC-Based MVDC Traction Power System on MPSoC. *Liang, T.*, +, *TTE June 2018 626-641*

Hybrid electric vehicles

A Simulation Platform for Optimization of Electric Vehicles With Modular Drivetrain Topologies. *Nemeth, T.*, +, *TTE Dec. 2018 888-900*

Electric Vehicle Battery Cycle Aging Evaluation in Real-World Daily Driving and Vehicle-to-Grid Services. *Jafari, M.*, +, *TTE March 2018 122-134*

Integrated Dual-Output L-Z Source Inverter for Hybrid Electric Vehicle. *Deepankar, .*, +, *TTE Sept. 2018 732-743*

Measurement of Medium-Duty Plug-In Hybrid Electric Vehicle Fuel Economy Sensitivity to Ambient Temperature. *Vore, S.E.*, +, *TTE March 2018 184-189*

Modeling and Investigation on Electromagnetic Noise in PM Motors With Single- and Double-Layer Concentrated Winding for EV and HEV Application. *Min, S.G.*, +, *TTE March 2018 292-302*

Shaft Design for Electric Traction Motors. *Liang, J.*, +, *TTE Sept. 2018 720-731*

Simultaneous Optimization of Geometry and Firing Angles for In-Wheel Switched Reluctance Motor Drive. *Anvari, B.*, +, *TTE March 2018 322-329*

Whole-Day Driving Prediction Control Strategy: Analysis on Real-World Drive Cycles. *Palcu, P.*, +, *TTE March 2018 172-183*

Hydrostatics

A Review of Integrated Motor Drive and Wide-Bandgap Power Electronics for High-Performance Electro-Hydrostatic Actuators. *Lee, W.*, +, *TTE Sept. 2018 684-693*

I

Impedance

Modified Algorithm for Fault Detection on AC Electrical Traction Line: An Indian Climate Case Study. *Saini, D.K.*, +, *TTE Dec. 2018 936-950*

Induction motor drives

Power Electronic Converter-Based Induction Motor Emulator Including Main and Leakage Flux Saturation. *Masadeh, M.A.*, +, *TTE June 2018 483-493*

Induction motors

Braking a Variable Flux-Intensifying IPMSM in Minimal Time. *Aljehaimi, A.M.*, +, *TTE Dec. 2018 867-876*

Optimization of Train Speed Curve for Energy Saving Using Efficient and Accurate Electric Traction Models on the Mass Rapid Transit System. *Zhao, X.*, +, *TTE Dec. 2018 922-935*

Inductive power transmission

A Comprehensive Review of Wireless Charging Technologies for Electric Vehicles. *Ahmad, A.*, +, *TTE March 2018 38-63*

Analysis and Design of Load-Independent Output Current or Output Voltage of a Three-Coil Wireless Power Transfer System. *Li, Y.*, +, *TTE June 2018 364-375*

Analysis, Design, and Optimization of LC/S Compensation Topology With Excellent Load-Independent Voltage Output for Inductive Power Transfer. *Yao, Y.*, +, *TTE Sept. 2018 767-777*

Compact Double-Sided Decoupled Coils-Based WPT Systems for High-Power Applications: Analysis, Design, and Experimental Verification. *Li, Y.*, +, *TTE March 2018 64-75*

LLC Charger Using Quasi-Contactless Power Transfer by Resonant Magnetic Induction Coupling. *Hsieh, H.*, +, *TTE June 2018 376-388*

Wireless Power Transfer for Vehicular Applications: Overview and Challenges. *Patil, D.*, +, *TTE March 2018 3-37*

Inductors

Integrated Dual-Output L-Z Source Inverter for Hybrid Electric Vehicle. *Deepankar, .*, +, *TTE Sept. 2018 732-743*

Variable DC-Link Control Loop Design for an Integrated Two-Stage AC/DC Converter. *Lu, J.*, +, *TTE March 2018 99-107*

Inference mechanisms

Failure Risk Interval Estimation of Traction Power Supply Equipment Considering the Impact of Multiple Factors. *Feng, D.*, +, *TTE June 2018 389-398*

Inspection

Optimization Method With Prediction-Based Maintenance Strategy for Traction Power Supply Equipment Based on Risk Quantification. *Feng, D.*, +, *TTE Dec. 2018 961-970*

Integer programming

- Joint PEV Charging Network and Distributed PV Generation Planning Based on Accelerated Generalized Benders Decomposition. *Zhang, H.*, +, *TTE Sept. 2018 789-803*
- Planning Fully Renewable Powered Charging Stations on Highways: A Data-Driven Robust Optimization Approach. *Xie, R.*, +, *TTE Sept. 2018 817-830*

Integrated circuit modeling

- A System-Level FPGA-Based Hardware-in-the-Loop Test of High-Speed Train. *Liu, C.*, +, *TTE Dec. 2018 912-921*

Inverters

- A Simulation Platform for Optimization of Electric Vehicles With Modular Drivetrain Topologies. *Nemeth, T.*, +, *TTE Dec. 2018 888-900*
- A System-Level FPGA-Based Hardware-in-the-Loop Test of High-Speed Train. *Liu, C.*, +, *TTE Dec. 2018 912-921*
- A Versatile Power-Hardware-in-the-Loop-Based Emulator for Rapid Testing of Transportation Electric Drives. *Amitkumar, K.S.*, +, *TTE Dec. 2018 901-911*
- Braking a Variable Flux-Intensifying IPMSM in Minimal Time. *Aljehaimi, A.M.*, +, *TTE Dec. 2018 867-876*
- Integrated Dual-Output L-Z Source Inverter for Hybrid Electric Vehicle. *Deepankar, .*, +, *TTE Sept. 2018 732-743*
- Operating Envelopes of the Variable-Flux Machine With Positive Reluctance Torque. *Aljehaimi, A.M.*, +, *TTE Sept. 2018 707-719*

J**Java**

- Measurement of Medium-Duty Plug-In Hybrid Electric Vehicle Fuel Economy Sensitivity to Ambient Temperature. *Vore, S.E.*, +, *TTE March 2018 184-189*

K**Kalman filters**

- Improved Battery SOC Estimation Accuracy Using a Modified UKF With an Adaptive Cell Model Under Real EV Operating Conditions. *Shehab El Din, M.*, +, *TTE June 2018 408-417*

L**LC circuits**

- Interleaved LLC Converter With Cascaded Voltage-Doubler Rectifiers for Deeply Depleted PEV Battery Charging. *Shahzad, M.I.*, +, *TTE March 2018 89-98*
- Variable DC-Link Control Loop Design for an Integrated Two-Stage AC/DC Converter. *Lu, J.*, +, *TTE March 2018 99-107*

Leakage currents

- Distributed Insulation Monitoring for U.K. 650-V Railway Signaling Power Supplies Using Rectified Current Difference Pattern Tracking. *Xu, G.*, +, *TTE June 2018 605-615*

Learning (artificial intelligence)

- Multicriteria PM Motor Design Based on ANFIS Evaluation of EV Driving Cycle Efficiency. *Krasopoulos, C.T.*, +, *TTE June 2018 525-535*

Least squares approximations

- Study on Electric Sunroof Pinch Detection of Cars Based on Model Reference Adaptive Cholesky Decomposition Filter. *Zhang, Y.*, +, *TTE March 2018 190-201*

Linear programming

- Planning Fully Renewable Powered Charging Stations on Highways: A Data-Driven Robust Optimization Approach. *Xie, R.*, +, *TTE Sept. 2018 817-830*

Lithium compounds

- Online Estimation of Capacity Fade and Power Fade of Lithium-Ion Batteries Based on Input-Output Response Technique. *Yang, Z.*, +, *TTE March 2018 147-156*

Load flow

- Distributed Optimal Power and Voltage Management in DC Microgrids: Applications to Dual-Source Trolleybus Systems. *Sindi, E.*, +, *TTE Sept. 2018 778-788*
- Joint PEV Charging Network and Distributed PV Generation Planning Based on Accelerated Generalized Benders Decomposition. *Zhang, H.*, +, *TTE Sept. 2018 789-803*

Loss measurement

- Core Loss Calculation in a Variable Flux Permanent Magnet Machine for Electrified Transportation. *Takbashi, A.*, +, *TTE Dec. 2018 857-866*

M**Machine control**

- Acoustic Noise-Based Uniform Permanent-Magnet Demagnetization Detection in SPMSM for High-Performance PMSM Drive. *Zhu, M.*, +, *TTE March 2018 303-313*
- Design, Analysis, and Comparison of Automatic Flux Regulator With Automatic Voltage Regulator-Based Generation System for DC Marine Vessels. *Satpathi, K.*, +, *TTE Sept. 2018 694-706*
- Fault Diagnosis Techniques for Permanent Magnet AC Machine and Drives—A Review of Current State of the Art. *Choi, S.*, +, *TTE June 2018 444-463*
- Power Electronic Converter-Based Induction Motor Emulator Including Main and Leakage Flux Saturation. *Masadeh, M.A.*, +, *TTE June 2018 483-493*
- Simultaneous Optimization of Geometry and Firing Angles for In-Wheel Switched Reluctance Motor Drive. *Anvari, B.*, +, *TTE March 2018 322-329*
- Torque Cancellation of Integrated Battery Charger Based on Six-Phase Permanent Magnet Synchronous Motor Drives for Electric Vehicles. *Ali, S.Q.*, +, *TTE June 2018 344-354*

Machine testing

- Acoustic Noise-Based Uniform Permanent-Magnet Demagnetization Detection in SPMSM for High-Performance PMSM Drive. *Zhu, M.*, +, *TTE March 2018 303-313*
- Emulation of a Permanent-Magnet Synchronous Generator in Real-Time Using Power Hardware-in-the-Loop. *Karthik, R.S.*, +, *TTE June 2018 474-482*

Machine theory

- Shaft Design for Electric Traction Motors. *Liang, J.*, +, *TTE Sept. 2018 720-731*

Machine vector control

- Characterization of a Variable Flux Machine for Transportation Using a Vector-Controlled Drive. *Thike, R.*, +, *TTE June 2018 494-505*

Machine windings

- Modeling and Investigation on Electromagnetic Noise in PM Motors With Single- and Double-Layer Concentrated Winding for EV and HEV Application. *Min, S.G.*, +, *TTE March 2018 292-302*

Magnetic cores

- Core Loss Calculation in a Variable Flux Permanent Magnet Machine for Electrified Transportation. *Takbashi, A.*, +, *TTE Dec. 2018 857-866*
- Detection and Isolation of Interturn Faults in Inductors of LCL Filter for Marine Electric Propulsion System. *Chandar A., S.*, +, *TTE March 2018 232-248*

Magnetic fields

- Modeling and Investigation on Electromagnetic Noise in PM Motors With Single- and Double-Layer Concentrated Winding for EV and HEV Application. *Min, S.G.*, +, *TTE March 2018 292-302*

Magnetic flux

- Braking a Variable Flux-Intensifying IPMSM in Minimal Time. *Aljehaimi, A.M.*, +, *TTE Dec. 2018 867-876*
- Characterization of a Variable Flux Machine for Transportation Using a Vector-Controlled Drive. *Thike, R.*, +, *TTE June 2018 494-505*
- Core Loss Calculation in a Variable Flux Permanent Magnet Machine for Electrified Transportation. *Takbashi, A.*, +, *TTE Dec. 2018 857-866*
- Design Optimization of a Spoke-Type Variable Flux Motor Using AlNiCo for Electrified Transportation. *Takbashi, A.*, +, *TTE June 2018 536-547*
- Detection and Isolation of Interturn Faults in Inductors of LCL Filter for Marine Electric Propulsion System. *Chandar A., S.*, +, *TTE March 2018 232-248*
- Numerical and Experimental Investigation of an Improved Flux Path Brushless-DC Machine for Variable Speed Applications. *Moradi CheshmehBeigi, H.*, +, *TTE Dec. 2018 877-887*
- Operating Envelopes of the Variable-Flux Machine With Positive Reluctance Torque. *Aljehaimi, A.M.*, +, *TTE Sept. 2018 707-719*
- Power Electronic Converter-Based Induction Motor Emulator Including Main and Leakage Flux Saturation. *Masadeh, M.A.*, +, *TTE June 2018 483-493*
- Magnetic hysteresis**
- Core Loss Calculation in a Variable Flux Permanent Magnet Machine for Electrified Transportation. *Takbashi, A.*, +, *TTE Dec. 2018 857-866*

Magnetic leakage

Detection and Isolation of Interturn Faults in Inductors of LCL Filter for Marine Electric Propulsion System. *Chandar A., S., +, TTE March 2018 232-248*

Power Electronic Converter-Based Induction Motor Emulator Including Main and Leakage Flux Saturation. *Masadeh, M.A., +, TTE June 2018 483-493*

Magnetic sensors

Detection and Isolation of Interturn Faults in Inductors of LCL Filter for Marine Electric Propulsion System. *Chandar A., S., +, TTE March 2018 232-248*

Magnetization

Braking a Variable Flux-Intensifying IPMSM in Minimal Time. *Aljehaimi, A.M., +, TTE Dec. 2018 867-876*

Design Optimization of a Spoke-Type Variable Flux Motor Using AlNiCo for Electrified Transportation. *Takbashi, A., +, TTE June 2018 536-547*

LLC Charger Using Quasi-Contactless Power Transfer by Resonant Magnetic Induction Coupling. *Hsieh, H., +, TTE June 2018 376-388*

Maintenance engineering

Electrical Power Generation in Aircraft: Review, Challenges, and Opportunities. *Madonna, V., +, TTE Sept. 2018 646-659*

Optimization Method With Prediction-Based Maintenance Strategy for Traction Power Supply Equipment Based on Risk Quantification. *Feng, D., +, TTE Dec. 2018 961-970*

Marine power systems

Design, Analysis, and Comparison of Automatic Flux Regulator With Automatic Voltage Regulator-Based Generation System for DC Marine Vessels. *Sapathi, K., +, TTE Sept. 2018 694-706*

Short-Circuit Fault Management in DC Electric Ship Propulsion System: Protection Requirements, Review of Existing Technologies and Future Research Trends. *Sapathi, K., +, TTE March 2018 272-291*

Marine propulsion

Detection and Isolation of Interturn Faults in Inductors of LCL Filter for Marine Electric Propulsion System. *Chandar A., S., +, TTE March 2018 232-248*

Short-Circuit Fault Management in DC Electric Ship Propulsion System: Protection Requirements, Review of Existing Technologies and Future Research Trends. *Sapathi, K., +, TTE March 2018 272-291*

Mathematical model

A System-Level FPGA-Based Hardware-in-the-Loop Test of High-Speed Train. *Liu, C., +, TTE Dec. 2018 912-921*

Matrix algebra

LLC Charger Using Quasi-Contactless Power Transfer by Resonant Magnetic Induction Coupling. *Hsieh, H., +, TTE June 2018 376-388*

Maximum power point trackers

Electrical Power Conditioning System for Thermoelectric Waste Heat Recovery in Commercial Vehicles. *Risseh, A.E., +, TTE June 2018 548-562*

Mechanical energy

Optimization of Train Speed Curve for Energy Saving Using Efficient and Accurate Electric Traction Models on the Mass Rapid Transit System. *Zhao, X., +, TTE Dec. 2018 922-935*

Military vehicles

Military-Based Vehicle-to-Grid and Vehicle-to-Vehicle Microgrid—System Architecture and Implementation. *Masrur, M.A., +, TTE March 2018 157-171*

Minimization

Optimal Sizing of Traction Motors Using Scalable Electric Machine Model. *Ramakrishnan, K., +, TTE March 2018 314-321*

Model reference adaptive control systems

Study on Electric Sunroof Pinch Detection of Cars Based on Model Reference Adaptive Cholesky Decomposition Filter. *Zhang, Y., +, TTE March 2018 190-201*

Monte Carlo methods

Planning Fully Renewable Powered Charging Stations on Highways: A Data-Driven Robust Optimization Approach. *Xie, R., +, TTE Sept. 2018 817-830*

Motion control

Motion Sensorless IPMSM Control Using Linear Moving Horizon Estimation With Luenberger Observer State Feedback. *Andersson, A., +, TTE June 2018 464-473*

Motor drives

A Review of Integrated Motor Drive and Wide-Bandgap Power Electronics for High-Performance Electro-Hydrostatic Actuators. *Lee, W., +, TTE Sept. 2018 684-693*

A Versatile Power-Hardware-in-the-Loop-Based Emulator for Rapid Testing of Transportation Electric Drives. *Amitkumar, K.S., +, TTE Dec. 2018 901-911*

Characterization of a Variable Flux Machine for Transportation Using a Vector-Controlled Drive. *Thike, R., +, TTE June 2018 494-505*

Multiprocessing systems

Real-Time Device-Level Simulation of MMC-Based MVDC Traction Power System on MPSoC. *Liang, T., +, TTE June 2018 626-641*

N**Neural networks**

Acoustic Noise-Based Uniform Permanent-Magnet Demagnetization Detection in SPMSM for High-Performance PMSM Drive. *Zhu, M., +, TTE March 2018 303-313*

Nonlinear control systems

Active Disturbance Rejection Control Strategy for Signal Injection-Based Sensorless IPMSM Drives. *Zhang, G., +, TTE March 2018 330-339*

Numerical analysis

Analysis, Design, and Optimization of LC/S Compensation Topology With Excellent Load-Independent Voltage Output for Inductive Power Transfer. *Yao, Y., +, TTE Sept. 2018 767-777*

Techno-economic Sizing of Auxiliary-Battery-Based Substations in DC Railway Systems. *Graber, G., +, TTE June 2018 616-625*

O**Observers**

Active Disturbance Rejection Control Strategy for Signal Injection-Based Sensorless IPMSM Drives. *Zhang, G., +, TTE March 2018 330-339*

Motion Sensorless IPMSM Control Using Linear Moving Horizon Estimation With Luenberger Observer State Feedback. *Andersson, A., +, TTE June 2018 464-473*

Optimal control

A Fixed-Frequency Optimization of PWM Current Controller—Modeling and Design of Control Parameters. *Gavagsaz-Ghoachani, R., +, TTE Sept. 2018 671-683*

Optimization

A Fixed-Frequency Optimization of PWM Current Controller—Modeling and Design of Control Parameters. *Gavagsaz-Ghoachani, R., +, TTE Sept. 2018 671-683*

Analysis, Design, and Optimization of LC/S Compensation Topology With Excellent Load-Independent Voltage Output for Inductive Power Transfer. *Yao, Y., +, TTE Sept. 2018 767-777*

Design Optimization of a Spoke-Type Variable Flux Motor Using AlNiCo for Electrified Transportation. *Takbashi, A., +, TTE June 2018 536-547*

Distributed Optimal Power and Voltage Management in DC Microgrids: Applications to Dual-Source Trolleybus Systems. *Sindi, E., +, TTE Sept. 2018 778-788*

Optimization of Train Speed Curve for Energy Saving Using Efficient and Accurate Electric Traction Models on the Mass Rapid Transit System. *Zhao, X., +, TTE Dec. 2018 922-935*

Oscillations

Vehicle-Grid System Stability Analysis Based on Norm Criterion and Suppression of Low-Frequency Oscillation With MMC-STATCOM. *Liu, Z., +, TTE Sept. 2018 757-766*

P**Parallel processing**

Measurement of Medium-Duty Plug-In Hybrid Electric Vehicle Fuel Economy Sensitivity to Ambient Temperature. *Vore, S.E., +, TTE March 2018 184-189*

Pareto optimization

Multicriteria PM Motor Design Based on ANFIS Evaluation of EV Driving Cycle Efficiency. *Krasopoulos, C.T., +, TTE June 2018 525-535*

Optimal Sizing of Traction Motors Using Scalable Electric Machine Model. *Ramakrishnan, K., +, TTE March 2018 314-321*

Particle filtering (numerical methods)

State of Health Estimation of Lithium-Ion Batteries Using Capacity Fade and Internal Resistance Growth Models. *Guha, A., +, TTE March 2018 135-146*

Permanent magnet generators

Emulation of a Permanent-Magnet Synchronous Generator in Real-Time Using Power Hardware-in-the-Loop. *Karthik, R.S.*, +, *TTE June 2018 474-482*

Permanent magnet machines

Acoustic Noise-Based Uniform Permanent-Magnet Demagnetization Detection in SPMSM for High-Performance PMSM Drive. *Zhu, M.*, +, *TTE March 2018 303-313*

Advantages and Characteristic Analysis of Slotless Rotary PM Machines in Comparison With Conventional Laminated Design Using Statistical Technique. *Min, S.G.*, +, *TTE June 2018 517-524*

Fault Diagnosis Techniques for Permanent Magnet AC Machine and Drives—A Review of Current State of the Art. *Choi, S.*, +, *TTE June 2018 444-463*

Permanent magnet motors

A Versatile Power-Hardware-in-the-Loop-Based Emulator for Rapid Testing of Transportation Electric Drives. *Amitkumar, K.S.*, +, *TTE Dec. 2018 901-911*

Acoustic Noise-Based Uniform Permanent-Magnet Demagnetization Detection in SPMSM for High-Performance PMSM Drive. *Zhu, M.*, +, *TTE March 2018 303-313*

Active Disturbance Rejection Control Strategy for Signal Injection-Based Sensorless IPMSM Drives. *Zhang, G.*, +, *TTE March 2018 330-339*

Braking a Variable Flux-Intensifying IPMSM in Minimal Time. *Aljehaimi, A.M.*, +, *TTE Dec. 2018 867-876*

Characterization of a Variable Flux Machine for Transportation Using a Vector-Controlled Drive. *Thike, R.*, +, *TTE June 2018 494-505*

Design Optimization of a Spoke-Type Variable Flux Motor Using AlNiCo for Electrified Transportation. *Takbash, A.*, +, *TTE June 2018 536-547*

Modeling and Investigation on Electromagnetic Noise in PM Motors With Single- and Double-Layer Concentrated Winding for EV and HEV Application. *Min, S.G.*, +, *TTE March 2018 292-302*

Motion Sensorless IPMSM Control Using Linear Moving Horizon Estimation With Luenberger Observer State Feedback. *Andersson, A.*, +, *TTE June 2018 464-473*

Multicriteria PM Motor Design Based on ANFIS Evaluation of EV Driving Cycle Efficiency. *Krasopoulos, C.T.*, +, *TTE June 2018 525-535*

Operating Envelopes of the Variable-Flux Machine With Positive Reluctance Torque. *Aljehaimi, A.M.*, +, *TTE Sept. 2018 707-719*

Shaft Design for Electric Traction Motors. *Liang, J.*, +, *TTE Sept. 2018 720-731*

Torque Cancellation of Integrated Battery Charger Based on Six-Phase Permanent Magnet Synchronous Motor Drives for Electric Vehicles. *Ali, S.Q.*, +, *TTE June 2018 344-354*

Phase transformers

Comparative Analysis of Topologies to Integrate Photovoltaic Sources in the Feeder Stations of AC Railways. *D'Arco, S.*, +, *TTE Dec. 2018 951-960*

Photovoltaic power systems

Joint PEV Charging Network and Distributed PV Generation Planning Based on Accelerated Generalized Benders Decomposition. *Zhang, H.*, +, *TTE Sept. 2018 789-803*

Photovoltaic systems

Comparative Analysis of Topologies to Integrate Photovoltaic Sources in the Feeder Stations of AC Railways. *D'Arco, S.*, +, *TTE Dec. 2018 951-960*

Position control

Active Disturbance Rejection Control Strategy for Signal Injection-Based Sensorless IPMSM Drives. *Zhang, G.*, +, *TTE March 2018 330-339*

Power amplifiers

A Versatile Power-Hardware-in-the-Loop-Based Emulator for Rapid Testing of Transportation Electric Drives. *Amitkumar, K.S.*, +, *TTE Dec. 2018 901-911*

Power capacitors

Study on Power Factor Behavior in High-Speed Railways Considering Train Timetable. *Wang, K.*, +, *TTE March 2018 220-231*

Power converters

A Review of Integrated Motor Drive and Wide-Bandgap Power Electronics for High-Performance Electro-Hydrostatic Actuators. *Lee, W.*, +, *TTE Sept. 2018 684-693*

Emulation of a Permanent-Magnet Synchronous Generator in Real-Time Using Power Hardware-in-the-Loop. *Karthik, R.S.*, +, *TTE June 2018 474-482*

Modular Multilevel Converters for Transportation Electrification: Challenges and Opportunities. *Ronanki, D.*, +, *TTE June 2018 399-407*

Power Electronic Converter-Based Induction Motor Emulator Including Main and Leakage Flux Saturation. *Masadeh, M.A.*, +, *TTE June 2018 483-493*

Vehicle-Grid System Stability Analysis Based on Norm Criterion and Suppression of Low-Frequency Oscillation With MMC-STATCOM. *Liu, Z.*, +, *TTE Sept. 2018 757-766*

Power distribution control

Distributed Optimal Power and Voltage Management in DC Microgrids: Applications to Dual-Source Trolleybus Systems. *Sindi, E.*, +, *TTE Sept. 2018 778-788*

Study on Power Factor Behavior in High-Speed Railways Considering Train Timetable. *Wang, K.*, +, *TTE March 2018 220-231*

Power distribution faults

Study on Power Factor Behavior in High-Speed Railways Considering Train Timetable. *Wang, K.*, +, *TTE March 2018 220-231*

Power distribution reliability

Study on Power Factor Behavior in High-Speed Railways Considering Train Timetable. *Wang, K.*, +, *TTE March 2018 220-231*

Power electronics

A Review of Integrated Motor Drive and Wide-Bandgap Power Electronics for High-Performance Electro-Hydrostatic Actuators. *Lee, W.*, +, *TTE Sept. 2018 684-693*

Evolution of Power Converter Topologies and Technical Considerations of Power Electronic Transformer-Based Rolling Stock Architectures. *Ronanki, D.*, +, *TTE March 2018 211-219*

Modeling and Control of Marine Diesel Generator System With Active Protection. *Kavil Kambrath, J.*, +, *TTE March 2018 249-271*

Power engineering computing

Failure Risk Interval Estimation of Traction Power Supply Equipment Considering the Impact of Multiple Factors. *Feng, D.*, +, *TTE June 2018 389-398*

Measurement of Medium-Duty Plug-In Hybrid Electric Vehicle Fuel Economy Sensitivity to Ambient Temperature. *Vore, S.E.*, +, *TTE March 2018 184-189*

Power factor

An Asymmetrical Connection Balance Transformer-Based Hybrid Railway Power Conditioning System With Cost-Function Optimization. *An, B.*, +, *TTE June 2018 577-590*

Study on Power Factor Behavior in High-Speed Railways Considering Train Timetable. *Wang, K.*, +, *TTE March 2018 220-231*

Power factor correction

Variable DC-Link Control Loop Design for an Integrated Two-Stage AC/DC Converter. *Lu, J.*, +, *TTE March 2018 99-107*

Power generation planning

Joint PEV Charging Network and Distributed PV Generation Planning Based on Accelerated Generalized Benders Decomposition. *Zhang, H.*, +, *TTE Sept. 2018 789-803*

Power grids

Detection and Isolation of Interturn Faults in Inductors of LCL Filter for Marine Electric Propulsion System. *Chandar A., S.*, +, *TTE March 2018 232-248*

Distributed Optimal Power and Voltage Management in DC Microgrids: Applications to Dual-Source Trolleybus Systems. *Sindi, E.*, +, *TTE Sept. 2018 778-788*

Joint PEV Charging Network and Distributed PV Generation Planning Based on Accelerated Generalized Benders Decomposition. *Zhang, H.*, +, *TTE Sept. 2018 789-803*

Smart Charging Strategy for Electric Vehicle Charging Stations. *Moghaddam, Z.*, +, *TTE March 2018 76-88*

Torque Cancellation of Integrated Battery Charger Based on Six-Phase Permanent Magnet Synchronous Motor Drives for Electric Vehicles. *Ali, S.Q.*, +, *TTE June 2018 344-354*

Power harmonic filters

An Asymmetrical Connection Balance Transformer-Based Hybrid Railway Power Conditioning System With Cost-Function Optimization. *An, B.*, +, *TTE June 2018 577-590*

Power inductors

Analysis, Design, and Optimization of LC/S Compensation Topology With Excellent Load-Independent Voltage Output for Inductive Power Transfer. *Yao, Y.*, +, *TTE Sept. 2018 767-777*

Power overhead lines

New Medium-Voltage DC Railway Electrification System. *Verdicchio, A.*, +, *TTE June 2018 591-604*

Power semiconductor devices

A Review of Integrated Motor Drive and Wide-Bandgap Power Electronics for High-Performance Electro-Hydrostatic Actuators. *Lee, W.*, +, *TTE Sept. 2018 684-693*

Power supplies

Comparative Analysis of Topologies to Integrate Photovoltaic Sources in the Feeder Stations of AC Railways. *D'Arco, S.*, +, *TTE Dec. 2018 951-960*

Power supply quality

An Asymmetrical Connection Balance Transformer-Based Hybrid Railway Power Conditioning System With Cost-Function Optimization. *An, B., +, TTE June 2018 577-590*

Evolution of Power Converter Topologies and Technical Considerations of Power Electronic Transformer-Based Rolling Stock Architectures. *Ronanki, D., +, TTE March 2018 211-219*

Joint PEV Charging Network and Distributed PV Generation Planning Based on Accelerated Generalized Benders Decomposition. *Zhang, H., +, TTE Sept. 2018 789-803*

Modeling and Simulation of AC Railway Electric Supply Lines Including Ground Return. *Ceraolo, M., TTE March 2018 202-210*

Power system protection

Electrical and Thermal Effects of Fault Currents in Aircraft Electrical Power Systems With Composite Aerostructures. *Jones, C.E., +, TTE Sept. 2018 660-670*

Power system reliability

Compact Double-Sided Decoupled Coils-Based WPT Systems for High-Power Applications: Analysis, Design, and Experimental Verification. *Li, Y., +, TTE March 2018 64-75*

Power system security

Compact Double-Sided Decoupled Coils-Based WPT Systems for High-Power Applications: Analysis, Design, and Experimental Verification. *Li, Y., +, TTE March 2018 64-75*

Power system simulation

Real-Time Device-Level Simulation of MMC-Based MVDC Traction Power System on MPSoC. *Liang, T., +, TTE June 2018 626-641*

Power system stability

Investigation on the Selection of Electric Power System Architecture for Future More Electric Aircraft. *Chen, J., +, TTE June 2018 563-576*

Power system transients

Real-Time Device-Level Simulation of MMC-Based MVDC Traction Power System on MPSoC. *Liang, T., +, TTE June 2018 626-641*

Power transformers

An Asymmetrical Connection Balance Transformer-Based Hybrid Railway Power Conditioning System With Cost-Function Optimization. *An, B., +, TTE June 2018 577-590*

Evolution of Power Converter Topologies and Technical Considerations of Power Electronic Transformer-Based Rolling Stock Architectures. *Ronanki, D., +, TTE March 2018 211-219*

Modeling and Optimization of an Integrated Transformer for Electric Vehicle On-Board Charger Applications. *Zou, S., +, TTE June 2018 355-363*

Power transmission (mechanical)

Modeling and Control of Marine Diesel Generator System With Active Protection. *Kavil Kambrath, J., +, TTE March 2018 249-271*

Power transmission lines

Modified Algorithm for Fault Detection on AC Electrical Traction Line: An Indian Climate Case Study. *Saini, D.K., +, TTE Dec. 2018 936-950*

Predictive control

Whole-Day Driving Prediction Control Strategy: Analysis on Real-World Drive Cycles. *Palcu, P., +, TTE March 2018 172-183*

Predictive models

Optimization Method With Prediction-Based Maintenance Strategy for Traction Power Supply Equipment Based on Risk Quantification. *Feng, D., +, TTE Dec. 2018 961-970*

Pricing

Energy Management of Electric Vehicle Integrated Home in a Time-of-Day Regime. *Rana, R., +, TTE Sept. 2018 804-816*

Probability

Failure Risk Interval Estimation of Traction Power Supply Equipment Considering the Impact of Multiple Factors. *Feng, D., +, TTE June 2018 389-398*

Proportional control

Power Electronic Converter-Based Induction Motor Emulator Including Main and Leakage Flux Saturation. *Masadeh, M.A., +, TTE June 2018 483-493*

Proton exchange membrane fuel cells

Voltage Reduction Technique for Use With Electrochemical Impedance Spectroscopy in High-Voltage Fuel Cell and Battery Systems. *Homayouni, H., +, TTE June 2018 418-431*

Pulse width modulation

A Fixed-Frequency Optimization of PWM Current Controller—Modeling and Design of Control Parameters. *Gavagsaz-Ghoachani, R., +, TTE Sept. 2018 671-683*

+ Check author entry for co-authors

R**Radiofrequency power transmission**

A Comprehensive Review of Wireless Charging Technologies for Electric Vehicles. *Ahmad, A., +, TTE March 2018 38-63*

Rail transportation

A Simulation Platform for Optimization of Electric Vehicles With Modular Drivetrain Topologies. *Nemeth, T., +, TTE Dec. 2018 888-900*

Comparative Analysis of Topologies to Integrate Photovoltaic Sources in the Feeder Stations of AC Railways. *D'Arco, S., +, TTE Dec. 2018 951-960*

Modified Algorithm for Fault Detection on AC Electrical Traction Line: An Indian Climate Case Study. *Saini, D.K., +, TTE Dec. 2018 936-950*

Optimization of Train Speed Curve for Energy Saving Using Efficient and Accurate Electric Traction Models on the Mass Rapid Transit System. *Zhao, X., +, TTE Dec. 2018 922-935*

Railway electrification

An Asymmetrical Connection Balance Transformer-Based Hybrid Railway Power Conditioning System With Cost-Function Optimization. *An, B., +, TTE June 2018 577-590*

Modeling and Simulation of AC Railway Electric Supply Lines Including Ground Return. *Ceraolo, M., TTE March 2018 202-210*

Modular Multilevel Converters for Transportation Electrification: Challenges and Opportunities. *Ronanki, D., +, TTE June 2018 399-407*

New Medium-Voltage DC Railway Electrification System. *Verdicchio, A., +, TTE June 2018 591-604*

Study on Power Factor Behavior in High-Speed Railways Considering Train Timetable. *Wang, K., +, TTE March 2018 220-231*

Techno-economic Sizing of Auxiliary-Battery-Based Substations in DC Railway Systems. *Graber, G., +, TTE June 2018 616-625*

Railway industry

Distributed Insulation Monitoring for U.K. 650-V Railway Signaling Power Supplies Using Rectified Current Difference Pattern Tracking. *Xu, G., +, TTE June 2018 605-615*

Railways

Evolution of Power Converter Topologies and Technical Considerations of Power Electronic Transformer-Based Rolling Stock Architectures. *Ronanki, D., +, TTE March 2018 211-219*

Vehicle-Grid System Stability Analysis Based on Norm Criterion and Suppression of Low-Frequency Oscillation With MMC-STATCOM. *Liu, Z., +, TTE Sept. 2018 757-766*

Reactive power

An Asymmetrical Connection Balance Transformer-Based Hybrid Railway Power Conditioning System With Cost-Function Optimization. *An, B., +, TTE June 2018 577-590*

Analysis and Design of Load-Independent Output Current or Output Voltage of a Three-Coil Wireless Power Transfer System. *Li, Y., +, TTE June 2018 364-375*

Reactive power control

Joint PEV Charging Network and Distributed PV Generation Planning Based on Accelerated Generalized Benders Decomposition. *Zhang, H., +, TTE Sept. 2018 789-803*

Study on Power Factor Behavior in High-Speed Railways Considering Train Timetable. *Wang, K., +, TTE March 2018 220-231*

Real-time systems

A Versatile Power-Hardware-in-the-Loop-Based Emulator for Rapid Testing of Transportation Electric Drives. *Amitkumar, K.S., +, TTE Dec. 2018 901-911*

A Versatile Power-Hardware-in-the-Loop-Based Emulator for Rapid Testing of Transportation Electric Drives. *Amitkumar, K.S., +, TTE Dec. 2018 901-911*

Rectifiers

Design, Analysis, and Comparison of Automatic Flux Regulator With Automatic Voltage Regulator-Based Generation System for DC Marine Vessels. *Satpathi, K., +, TTE Sept. 2018 694-706*

Rectifying circuits

An Asymmetrical Connection Balance Transformer-Based Hybrid Railway Power Conditioning System With Cost-Function Optimization. *An, B., +, TTE June 2018 577-590*

Detection and Isolation of Interturn Faults in Inductors of LCL Filter for Marine Electric Propulsion System. *Chandar A., S., +, TTE March 2018 232-248*

Regression analysis

Measurement of Medium-Duty Plug-In Hybrid Electric Vehicle Fuel Economy Sensitivity to Ambient Temperature. *Vore, S.E., +, TTE March 2018 184-189*

Relays

Modified Algorithm for Fault Detection on AC Electrical Traction Line: An Indian Climate Case Study. *Saini, D.K.*, +, *TTE Dec. 2018 936-950*

Reliability

A Comprehensive Review of Wireless Charging Technologies for Electric Vehicles. *Ahmad, A.*, +, *TTE March 2018 38-63*

Optimization Method With Prediction-Based Maintenance Strategy for Traction Power Supply Equipment Based on Risk Quantification. *Feng, D.*, +, *TTE Dec. 2018 961-970*

Smart Charging Strategy for Electric Vehicle Charging Stations. *Moghaddam, Z.*, +, *TTE March 2018 76-88*

Reluctance machines

Torque Characterization of a Synchronous Reluctance Machine Using an Analytical Model. *Maroufian, S.S.*, +, *TTE June 2018 506-516*

Reluctance motor drives

Simultaneous Optimization of Geometry and Firing Angles for In-Wheel Switched Reluctance Motor Drive. *Anvari, B.*, +, *TTE March 2018 322-329*

Reluctance motors

Comprehensive Report on Design and Development of a 100-kW DSSRM. *Maharjan, L.*, +, *TTE Dec. 2018 835-856*

Motion Sensorless IPMSM Control Using Linear Moving Horizon Estimation With Luenberger Observer State Feedback. *Andersson, A.*, +, *TTE June 2018 464-473*

Shaft Design for Electric Traction Motors. *Liang, J.*, +, *TTE Sept. 2018 720-731*

Remaining life assessment

State of Health Estimation of Lithium-Ion Batteries Using Capacity Fade and Internal Resistance Growth Models. *Guha, A.*, +, *TTE March 2018 135-146*

Renewable energy sources

Joint PEV Charging Network and Distributed PV Generation Planning Based on Accelerated Generalized Benders Decomposition. *Zhang, H.*, +, *TTE Sept. 2018 789-803*

Resonant power converters

Interleaved LLC Converter With Cascaded Voltage-Doubler Rectifiers for Deeply Depleted PEV Battery Charging. *Shahzad, M.I.*, +, *TTE March 2018 89-98*

PV Battery Charger Using an L3C Resonant Converter for Electric Vehicle Applications. *Shafei, N.*, +, *TTE March 2018 108-121*

Variable DC-Link Control Loop Design for an Integrated Two-Stage AC/DC Converter. *Lu, J.*, +, *TTE March 2018 99-107*

Road safety

Study on Electric Sunroof Pinch Detection of Cars Based on Model Reference Adaptive Cholesky Decomposition Filter. *Zhang, Y.*, +, *TTE March 2018 190-201*

Road traffic

A Stochastic Method for Prediction of the Power Demand at High Rate EV Chargers. *Hilton, G.*, +, *TTE Sept. 2018 744-756*

Road vehicles

Distributed Optimal Power and Voltage Management in DC Microgrids: Applications to Dual-Source Trolleybus Systems. *Sindi, E.*, +, *TTE Sept. 2018 778-788*

Measurement of Medium-Duty Plug-In Hybrid Electric Vehicle Fuel Economy Sensitivity to Ambient Temperature. *Vore, S.E.*, +, *TTE March 2018 184-189*

Military-Based Vehicle-to-Grid and Vehicle-to-Vehicle Microgrid—System Architecture and Implementation. *Masrur, M.A.*, +, *TTE March 2018 157-171*

Roads

A Stochastic Method for Prediction of the Power Demand at High Rate EV Chargers. *Hilton, G.*, +, *TTE Sept. 2018 744-756*

Rotors

Advantages and Characteristic Analysis of Slotless Rotary PM Machines in Comparison With Conventional Laminated Design Using Statistical Technique. *Min, S.G.*, +, *TTE June 2018 517-524*

Design, Analysis, and Comparison of Automatic Flux Regulator With Automatic Voltage Regulator-Based Generation System for DC Marine Vessels. *Satpathi, K.*, +, *TTE Sept. 2018 694-706*

Fault Diagnosis Techniques for Permanent Magnet AC Machine and Drives—A Review of Current State of the Art. *Choi, S.*, +, *TTE June 2018 444-463*

Numerical and Experimental Investigation of an Improved Flux Path Brushless-DC Machine for Variable Speed Applications. *Moradi CheshmehBeigi, H.*, +, *TTE Dec. 2018 877-887*

Power Electronic Converter-Based Induction Motor Emulator Including Main and Leakage Flux Saturation. *Masadeh, M.A.*, +, *TTE June 2018 483-493*

Simultaneous Optimization of Geometry and Firing Angles for In-Wheel Switched Reluctance Motor Drive. *Anvari, B.*, +, *TTE March 2018 322-329*

Torque Cancellation of Integrated Battery Charger Based on Six-Phase Permanent Magnet Synchronous Motor Drives for Electric Vehicles. *Ali, S.Q.*, +, *TTE June 2018 344-354*

Roundoff errors

Study on Electric Sunroof Pinch Detection of Cars Based on Model Reference Adaptive Cholesky Decomposition Filter. *Zhang, Y.*, +, *TTE March 2018 190-201*

S**Saturation magnetization**

Core Loss Calculation in a Variable Flux Permanent Magnet Machine for Electrified Transportation. *Takbashi, A.*, +, *TTE Dec. 2018 857-866*

Secondary cells

A Solar Power-Assisted Battery Balancing System for Electric Vehicles. *Duan, C.*, +, *TTE June 2018 432-443*

Analysis and Design of Load-Independent Output Current or Output Voltage of a Three-Coil Wireless Power Transfer System. *Li, Y.*, +, *TTE June 2018 364-375*

Electric Vehicle Battery Cycle Aging Evaluation in Real-World Daily Driving and Vehicle-to-Grid Services. *Jafari, M.*, +, *TTE March 2018 122-134*

Energy Management of Electric Vehicle Integrated Home in a Time-of-Day Regime. *Rana, R.*, +, *TTE Sept. 2018 804-816*

Improved Battery SOC Estimation Accuracy Using a Modified UKF With an Adaptive Cell Model Under Real EV Operating Conditions. *Shehab El Din, M.*, +, *TTE June 2018 408-417*

Online Estimation of Capacity Fade and Power Fade of Lithium-Ion Batteries Based on Input-Output Response Technique. *Yang, Z.*, +, *TTE March 2018 147-156*

Smart Charging Strategy for Electric Vehicle Charging Stations. *Moghaddam, Z.*, +, *TTE March 2018 76-88*

State of Health Estimation of Lithium-Ion Batteries Using Capacity Fade and Internal Resistance Growth Models. *Guha, A.*, +, *TTE March 2018 135-146*

Voltage Reduction Technique for Use With Electrochemical Impedance Spectroscopy in High-Voltage Fuel Cell and Battery Systems. *Homayouni, H.*, +, *TTE June 2018 418-431*

Sensitivity analysis

Vehicle-Grid System Stability Analysis Based on Norm Criterion and Suppression of Low-Frequency Oscillation With MMC-STATCOM. *Liu, Z.*, +, *TTE Sept. 2018 757-766*

Sensorless machine control

Active Disturbance Rejection Control Strategy for Signal Injection-Based Sensorless IPMSM Drives. *Zhang, G.*, +, *TTE March 2018 330-339*

Motion Sensorless IPMSM Control Using Linear Moving Horizon Estimation With Luenberger Observer State Feedback. *Andersson, A.*, +, *TTE June 2018 464-473*

Sensors

Modeling and Control of Marine Diesel Generator System With Active Protection. *Kavil Kambrath, J.*, +, *TTE March 2018 249-271*

Shafts

Modeling and Control of Marine Diesel Generator System With Active Protection. *Kavil Kambrath, J.*, +, *TTE March 2018 249-271*

Shaft Design for Electric Traction Motors. *Liang, J.*, +, *TTE Sept. 2018 720-731*

Torque Cancellation of Integrated Battery Charger Based on Six-Phase Permanent Magnet Synchronous Motor Drives for Electric Vehicles. *Ali, S.Q.*, +, *TTE June 2018 344-354*

Ships

Modular Multilevel Converters for Transportation Electrification: Challenges and Opportunities. *Ronanki, D.*, +, *TTE June 2018 399-407*

Short-Circuit Fault Management in DC Electric Ship Propulsion System: Protection Requirements, Review of Existing Technologies and Future Research Trends. *Satpathi, K.*, +, *TTE March 2018 272-291*

Solar power

A Solar Power-Assisted Battery Balancing System for Electric Vehicles. *Duan, C.*, +, *TTE June 2018 432-443*

SQL

Measurement of Medium-Duty Plug-In Hybrid Electric Vehicle Fuel Economy Sensitivity to Ambient Temperature. *Vore, S.E.*, +, *TTE March 2018 184-189*

Stability

A Fixed-Frequency Optimization of PWM Current Controller—Modeling and Design of Control Parameters. *Gavagsaz-Ghoachani, R.*, +, *TTE Sept. 2018 671-683*

State feedback

Motion Sensorless IPMSM Control Using Linear Moving Horizon Estimation With Luenberger Observer State Feedback. *Andersson, A.*, +, *TTE June 2018 464-473*

State of charge

An Automated Charger for Large-Scale Adoption of Electric Vehicles. *Faddel, S.*, +, *TTE Dec. 2018 971-984*

Static VAR compensators

Vehicle-Grid System Stability Analysis Based on Norm Criterion and Suppression of Low-Frequency Oscillation With MMC-STATCOM. *Liu, Z.*, +, *TTE Sept. 2018 757-766*

Statistical analysis

Advantages and Characteristic Analysis of Slotless Rotary PM Machines in Comparison With Conventional Laminated Design Using Statistical Technique. *Min, S.G.*, +, *TTE June 2018 517-524*

Stator windings

Comprehensive Report on Design and Development of a 100-kW DSSRM. *Maharjan, L.*, +, *TTE Dec. 2018 835-856*

Numerical and Experimental Investigation of an Improved Flux Path Brushless-DC Machine for Variable Speed Applications. *Moradi CheshmehBeigi, H.*, +, *TTE Dec. 2018 877-887*

Stators

Power Electronic Converter-Based Induction Motor Emulator Including Main and Leakage Flux Saturation. *Masadeh, M.A.*, +, *TTE June 2018 483-493*

Simultaneous Optimization of Geometry and Firing Angles for In-Wheel Switched Reluctance Motor Drive. *Anvari, B.*, +, *TTE March 2018 322-329*

Torque Cancellation of Integrated Battery Charger Based on Six-Phase Permanent Magnet Synchronous Motor Drives for Electric Vehicles. *Ali, S.Q.*, +, *TTE June 2018 344-354*

Stochastic processes

A Stochastic Method for Prediction of the Power Demand at High Rate EV Chargers. *Hilton, G.*, +, *TTE Sept. 2018 744-756*

Stochastic programming

Joint PEV Charging Network and Distributed PV Generation Planning Based on Accelerated Generalized Benders Decomposition. *Zhang, H.*, +, *TTE Sept. 2018 789-803*

Substations

Techno-economic Sizing of Auxiliary-Battery-Based Substations in DC Railway Systems. *Graber, G.*, +, *TTE June 2018 616-625*

Switching converters

Analysis, Design, and Optimization of LC/S Compensation Topology With Excellent Load-Independent Voltage Output for Inductive Power Transfer. *Yao, Y.*, +, *TTE Sept. 2018 767-777*

Evolution of Power Converter Topologies and Technical Considerations of Power Electronic Transformer-Based Rolling Stock Architectures. *Ronanki, D.*, +, *TTE March 2018 211-219*

Integrated Dual-Output L-Z Source Inverter for Hybrid Electric Vehicle. *Deepankar, .*, +, *TTE Sept. 2018 732-743*

Interleaved LLC Converter With Cascaded Voltage-Doubler Rectifiers for Deeply Depleted PEV Battery Charging. *Shahzad, M.I.*, +, *TTE March 2018 89-98*

Synchronous generators

Design, Analysis, and Comparison of Automatic Flux Regulator With Automatic Voltage Regulator-Based Generation System for DC Marine Vessels. *Sapathi, K.*, +, *TTE Sept. 2018 694-706*

Emulation of a Permanent-Magnet Synchronous Generator in Real-Time Using Power Hardware-in-the-Loop. *Kaarthik, R.S.*, +, *TTE June 2018 474-482*

Synchronous machines

Acoustic Noise-Based Uniform Permanent-Magnet Demagnetization Detection in SPMSM for High-Performance PMSM Drive. *Zhu, M.*, +, *TTE March 2018 303-313*

Synchronous motor drives

Acoustic Noise-Based Uniform Permanent-Magnet Demagnetization Detection in SPMSM for High-Performance PMSM Drive. *Zhu, M.*, +, *TTE March 2018 303-313*

Active Disturbance Rejection Control Strategy for Signal Injection-Based Sensorless IPMSM Drives. *Zhang, G.*, +, *TTE March 2018 330-339*

Motion Sensorless IPMSM Control Using Linear Moving Horizon Estimation With Luenberger Observer State Feedback. *Andersson, A.*, +, *TTE June 2018 464-473*

Torque Cancellation of Integrated Battery Charger Based on Six-Phase Permanent Magnet Synchronous Motor Drives for Electric Vehicles. *Ali, S.Q.*, +, *TTE June 2018 344-354*

Synchronous motors

Operating Envelopes of the Variable-Flux Machine With Positive Reluctance Torque. *Aljehaimi, A.M.*, +, *TTE Sept. 2018 707-719*

System-on-chip

Real-Time Device-Level Simulation of MMC-Based MVDC Traction Power System on MPSoC. *Liang, T.*, +, *TTE June 2018 626-641*

T**Tensors**

Torque Characterization of a Synchronous Reluctance Machine Using an Analytical Model. *Maroufian, S.S.*, +, *TTE June 2018 506-516*

Thermal analysis

Comprehensive Report on Design and Development of a 100-kW DSSRM. *Maharjan, L.*, +, *TTE Dec. 2018 835-856*

Thermal management

Development of Aircraft Electric Starter-Generator System Based on Active Rectification Technology. *Bozhko, S.*, +, *TTE Dec. 2018 985-996*

Thermal management (packaging)

A Review of Integrated Motor Drive and Wide-Bandgap Power Electronics for High-Performance Electro-Hydrostatic Actuators. *Lee, W.*, +, *TTE Sept. 2018 684-693*

Electric Vehicle Battery Cycle Aging Evaluation in Real-World Daily Driving and Vehicle-to-Grid Services. *Jafari, M.*, +, *TTE March 2018 122-134*

Thermoelectric conversion

Electrical Power Conditioning System for Thermoelectric Waste Heat Recovery in Commercial Vehicles. *Risseh, A.E.*, +, *TTE June 2018 548-562*

Torque

Advantages and Characteristic Analysis of Slotless Rotary PM Machines in Comparison With Conventional Laminated Design Using Statistical Technique. *Min, S.G.*, +, *TTE June 2018 517-524*

Braking a Variable Flux-Intensifying IPMSM in Minimal Time. *Aljehaimi, A.M.*, +, *TTE Dec. 2018 867-876*

Characterization of a Variable Flux Machine for Transportation Using a Vector-Controlled Drive. *Thike, R.*, +, *TTE June 2018 494-505*

Comprehensive Report on Design and Development of a 100-kW DSSRM. *Maharjan, L.*, +, *TTE Dec. 2018 835-856*

Design Optimization of a Spoke-Type Variable Flux Motor Using AlNiCo for Electrified Transportation. *Takbashi, A.*, +, *TTE June 2018 536-547*

Modeling and Investigation on Electromagnetic Noise in PM Motors With Single- and Double-Layer Concentrated Winding for EV and HEV Application. *Min, S.G.*, +, *TTE March 2018 292-302*

Multicriteria PM Motor Design Based on ANFIS Evaluation of EV Driving Cycle Efficiency. *Krasopoulos, C.T.*, +, *TTE June 2018 525-535*

Operating Envelopes of the Variable-Flux Machine With Positive Reluctance Torque. *Aljehaimi, A.M.*, +, *TTE Sept. 2018 707-719*

Simultaneous Optimization of Geometry and Firing Angles for In-Wheel Switched Reluctance Motor Drive. *Anvari, B.*, +, *TTE March 2018 322-329*

Torque Cancellation of Integrated Battery Charger Based on Six-Phase Permanent Magnet Synchronous Motor Drives for Electric Vehicles. *Ali, S.Q.*, +, *TTE June 2018 344-354*

Torque Characterization of a Synchronous Reluctance Machine Using an Analytical Model. *Maroufian, S.S.*, +, *TTE June 2018 506-516*

Traction

Emulation of a Permanent-Magnet Synchronous Generator in Real-Time Using Power Hardware-in-the-Loop. *Kaarthik, R.S.*, +, *TTE June 2018 474-482*

Evolution of Power Converter Topologies and Technical Considerations of Power Electronic Transformer-Based Rolling Stock Architectures. *Ronanki, D.*, +, *TTE March 2018 211-219*

Modular Multilevel Converters for Transportation Electrification: Challenges and Opportunities. *Ronanki, D.*, +, *TTE June 2018 399-407*

New Medium-Voltage DC Railway Electrification System. *Verdicchio, A.*, +, *TTE June 2018 591-604*

Simultaneous Optimization of Geometry and Firing Angles for In-Wheel Switched Reluctance Motor Drive. *Anvari, B.*, +, *TTE March 2018 322-329*

Techno-economic Sizing of Auxiliary-Battery-Based Substations in DC Railway Systems. *Graber, G.*, +, *TTE June 2018 616-625*

Torque Characterization of a Synchronous Reluctance Machine Using an Analytical Model. *Maroufian, S.S.*, +, *TTE June 2018 506-516*

Traction motors

- A System-Level FPGA-Based Hardware-in-the-Loop Test of High-Speed Train. *Liu, C.*, +, *TTE Dec. 2018 912-921*
- Optimal Sizing of Traction Motors Using Scalable Electric Machine Model. *Ramakrishnan, K.*, +, *TTE March 2018 314-321*
- Optimization of Train Speed Curve for Energy Saving Using Efficient and Accurate Electric Traction Models on the Mass Rapid Transit System. *Zhao, X.*, +, *TTE Dec. 2018 922-935*
- Shaft Design for Electric Traction Motors. *Liang, J.*, +, *TTE Sept. 2018 720-731*

Traction power supplies

- An Asymmetrical Connection Balance Transformer-Based Hybrid Railway Power Conditioning System With Cost-Function Optimization. *An, B.*, +, *TTE June 2018 577-590*
- Failure Risk Interval Estimation of Traction Power Supply Equipment Considering the Impact of Multiple Factors. *Feng, D.*, +, *TTE June 2018 389-398*
- Real-Time Device-Level Simulation of MMC-Based MVDC Traction Power System on MPSoC. *Liang, T.*, +, *TTE June 2018 626-641*
- Study on Power Factor Behavior in High-Speed Railways Considering Train Timetable. *Wang, K.*, +, *TTE March 2018 220-231*

Transfer functions

- Integrated Dual-Output L-Z Source Inverter for Hybrid Electric Vehicle. *Deepankar, .*, +, *TTE Sept. 2018 732-743*

Transformer windings

- LLC Charger Using Quasi-Contactless Power Transfer by Resonant Magnetic Induction Coupling. *Hsieh, H.*, +, *TTE June 2018 376-388*

Transient analysis

- Emulation of a Permanent-Magnet Synchronous Generator in Real-Time Using Power Hardware-in-the-Loop. *Kaarthik, R.S.*, +, *TTE June 2018 474-482*

Transient response

- Power Electronic Converter-Based Induction Motor Emulator Including Main and Leakage Flux Saturation. *Masadeh, M.A.*, +, *TTE June 2018 483-493*

Transport control

- A Simulation Platform for Optimization of Electric Vehicles With Modular Drivetrain Topologies. *Nemeth, T.*, +, *TTE Dec. 2018 888-900*
- Characterization of a Variable Flux Machine for Transportation Using a Vector-Controlled Drive. *Thike, R.*, +, *TTE June 2018 494-505*
- Smart Charging Strategy for Electric Vehicle Charging Stations. *Moghaddam, Z.*, +, *TTE March 2018 76-88*
- Whole-Day Driving Prediction Control Strategy: Analysis on Real-World Drive Cycles. *Palcu, P.*, +, *TTE March 2018 172-183*

V**Variable speed drives**

- Optimization of Train Speed Curve for Energy Saving Using Efficient and Accurate Electric Traction Models on the Mass Rapid Transit System. *Zhao, X.*, +, *TTE Dec. 2018 922-935*

Vehicle dynamics

- Multicriteria PM Motor Design Based on ANFIS Evaluation of EV Driving Cycle Efficiency. *Krasopoulos, C.T.*, +, *TTE June 2018 525-535*

Vehicle-to-grid

- A Comprehensive Review of Wireless Charging Technologies for Electric Vehicles. *Ahmad, A.*, +, *TTE March 2018 38-63*
- Military-Based Vehicle-to-Grid and Vehicle-to-Vehicle Microgrid—System Architecture and Implementation. *Masrur, M.A.*, +, *TTE March 2018 157-171*

Vibrations

- Modeling and Investigation on Electromagnetic Noise in PM Motors With Single- and Double-Layer Concentrated Winding for EV and HEV Application. *Min, S.G.*, +, *TTE March 2018 292-302*

Voltage control

- A Versatile Power-Hardware-in-the-Loop-Based Emulator for Rapid Testing of Transportation Electric Drives. *Amitkumar, K.S.*, +, *TTE Dec. 2018 901-911*
- An Automated Charger for Large-Scale Adoption of Electric Vehicles. *Faddel, S.*, +, *TTE Dec. 2018 971-984*
- Design, Analysis, and Comparison of Automatic Flux Regulator With Automatic Voltage Regulator-Based Generation System for DC Marine Vessels. *Satpathi, K.*, +, *TTE Sept. 2018 694-706*
- Integrated Dual-Output L-Z Source Inverter for Hybrid Electric Vehicle. *Deepankar, .*, +, *TTE Sept. 2018 732-743*
- Interleaved LLC Converter With Cascaded Voltage-Doubler Rectifiers for Deeply Depleted PEV Battery Charging. *Shahzad, M.I.*, +, *TTE March 2018 89-98*
- Numerical and Experimental Investigation of an Improved Flux Path Brushless-DC Machine for Variable Speed Applications. *Moradi CheshmehBeigi, H.*, +, *TTE Dec. 2018 877-887*
- PV Battery Charger Using an L3C Resonant Converter for Electric Vehicle Applications. *Shafiei, N.*, +, *TTE March 2018 108-121*
- Variable DC-Link Control Loop Design for an Integrated Two-Stage AC/DC Converter. *Lu, J.*, +, *TTE March 2018 99-107*

Voltage multipliers

- Interleaved LLC Converter With Cascaded Voltage-Doubler Rectifiers for Deeply Depleted PEV Battery Charging. *Shahzad, M.I.*, +, *TTE March 2018 89-98*

Voltage regulators

- Design, Analysis, and Comparison of Automatic Flux Regulator With Automatic Voltage Regulator-Based Generation System for DC Marine Vessels. *Satpathi, K.*, +, *TTE Sept. 2018 694-706*

Voltage-source converters

- Real-Time Device-Level Simulation of MMC-Based MVDC Traction Power System on MPSoC. *Liang, T.*, +, *TTE June 2018 626-641*
- Vehicle-Grid System Stability Analysis Based on Norm Criterion and Suppression of Low-Frequency Oscillation With MMC-STATCOM. *Liu, Z.*, +, *TTE Sept. 2018 757-766*

W**Waste heat**

- Electrical Power Conditioning System for Thermoelectric Waste Heat Recovery in Commercial Vehicles. *Risseh, A.E.*, +, *TTE June 2018 548-562*

Wide band gap semiconductors

- A Review of Integrated Motor Drive and Wide-Bandgap Power Electronics for High-Performance Electro-Hydrostatic Actuators. *Lee, W.*, +, *TTE Sept. 2018 684-693*

Wind turbines

- A Review of Integrated Motor Drive and Wide-Bandgap Power Electronics for High-Performance Electro-Hydrostatic Actuators. *Lee, W.*, +, *TTE Sept. 2018 684-693*

Z**Zero voltage switching**

- Analysis, Design, and Optimization of LC/S Compensation Topology With Excellent Load-Independent Voltage Output for Inductive Power Transfer. *Yao, Y.*, +, *TTE Sept. 2018 767-777*
- Interleaved LLC Converter With Cascaded Voltage-Doubler Rectifiers for Deeply Depleted PEV Battery Charging. *Shahzad, M.I.*, +, *TTE March 2018 89-98*