2012 Index
IEEE Transactions on Mobile Computing
Vol. 11

This index covers all technical items — papers, correspondence, reviews, etc. — that appeared in this periodical during 2012, and items from previous years that were commented upon or corrected in 2012. 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

Abbagnale, Anna, and Cuomo, Francesca, Leveraging the Algebraic Connectivity of a Cognitive Network for Routing Design; *TMC July 2012 1163-1178*

Abdel Khalek, Amin, and Dawy, Zaher, Energy-Efficient Cooperative Video Distribution with Statistical QoS Provisions over Wireless Networks; *TMC July 2012 1223-1236*

Abouzeid, Alhussein A., *see* Wang, Di, *TMC June 2012 995-1006*

Achtzehn, Andreas, *see* van de Beek, Jaap, *TMC Feb. 2012 178-188*

Agrawal, Piyush, *see* Zhao, Yang, *TMC May 2012 865-877*

Akan, Ozgur B., *see* Guney, Aydin, *TMC March 2012 353-366*

Akyildiz, Ian F., *see* Lee, Won-Yeol, *TMC April 2012 529-542*

Akyildiz, Ian F., *see* Wang, Pu, *TMC Feb. 2012 204-217*

Alayev, Yosef, *see* Chen, Fangfei, *TMC Jan. 2012 73-85*

Altman, Eitan, *see* Ramaiyan, Venkatesh, *TMC Nov. 2012 1601-1612*

Amodeo, Lionel, *see* Mourad, Farah, *TMC Aug. 2012 1261-1273*

Annavaram, Murali, *see* Hoh, Baik, *TMC May 2012 849-864*

Ashtiani, Farid, *see* Sharif-Nassab, Arsalan, *TMC Oct. 2012 1425-1435*

Atakan, Baris, *see* Guney, Aydin, *TMC March 2012 353-366*

Atiquzzaman, Mohammed, *see* Shahriar, Abu Zafar M., *TMC July 2012 1192-1206*

Au, Wain Sy Anthea, *see* Feng, Chen, *TMC Dec. 2012 1983-1993*

Auer, Gunther, *see* Sinanović, Sinan, *TMC Dec. 2012 2121-2132*

Ayday, Erman, and Fekri, Faramarz, An Iterative Algorithm for Trust Management and Adversary Detection for Delay-Tolerant Networks; *TMC Sept. 2012 1514-1531*

B

Baccarelli, Enzo, Cordeschi, Nicola, and Patriarca, Tatiana, Jointly Optimal Source-Flow, Transmit-Power, and Sending-Rate Control for Maximum-Throughput Delivery of VBR Traffic over Faded Links; *TMC March 2012 390-401*

Baek, Joo-Young, and Suh, Young-Joo, Heuristic Burst Construction Algorithm for Improving Downlink Capacity in IEEE 802.16 OFDMA Systems; *TMC Jan. 2012 155-168*

Bahl, Paramvir (Victor), *see* Murty, Rohan, *TMC Feb. 2012 189-203*

Baker, Fred, *see* Hou, Ronghui, *TMC Feb. 2012 264-277*

Ban, Jeff, *see* Hoh, Baik, *TMC May 2012 849-864*

Banerjee, Suman, *see* Rayanchu, Shravan, *TMC Sept. 2012 1455-1469*

Bar-Noy, Amotz, *see* Chen, Fangfei, *TMC Jan. 2012 73-85*

Barakat, Chadi, *see* Krifa, Amir, *TMC Sept. 2012 1470-1483*

Barcelo-Ordinas, Jose M., *see* Trullols-Cruces, Oscar, *TMC April 2012 663-678*

Bayen, Alexandre M., *see* Hoh, Baik, *TMC May 2012 849-864*

Begusic, Dinko, *see* Perkovic, Toni, *TMC Feb. 2012 337-351*

Bei, Yuanzhe, *see* Wang, Xinbing, *TMC June 2012 970-982*

Beigl, Michael, *see* Sigg, Stephan, *TMC June 2012 1047-1059*

Bejerano, Yigal, Coverage Verification without Location Information; *TMC April 2012 631-643*

Belding, Elizabeth M., *see* Singh, Sumit, *TMC March 2012 367-376*

Bettstetter, Christian, *see* Schilcher, Udo, *TMC Dec. 2012 2109-2120*

Bhargava, Vijay K., *see* Khabbazian, Majid, *TMC March 2012 402-413*

Biswas, Subir, *see* Plummer Jr., Anthony, *TMC Jan. 2012 19-32*

Blake, Ian F., *see* Khabbazian, Majid, *TMC March 2012 402-413*

Brandner, Günther, *see* Schilcher, Udo, *TMC Dec. 2012 2109-2120*

Breen, David E., *see* Fridman, Alex, *TMC July 2012 1179-1191*

Burchardt, Harald, *see* Sinanović, Sinan, *TMC Dec. 2012 2121-2132*

C

Cagalj, Mario, *see* Perkovic, Toni, *TMC Feb. 2012 337-351*

Cao, Jiannong, *see* Zhang, Tao, *TMC Oct. 2012 1555-1568*

Cao, Zhigang, *see* Liu, Juan, *TMC Aug. 2012 1412-1423*

Cecan, Nicolae, *see* Yang, Jie, *TMC Sept. 2012 1426-1440*

Cha, Hojung, *see* Shin, Hyojeong, *TMC Nov. 2012 1749-1762*

Chandra, Ranveer, *see* Murty, Rohan, *TMC Feb. 2012 189-203*

Chandra, Ranveer, *see* Rayanchu, Shravan, *TMC Sept. 2012 1455-1469*

Chandra, Surendar, Moderated Group Authoring System for Campus-Wide Workgroups; *TMC June 2012 1007-1020*

Chandrasekaran, Gayathri, *see* Yang, Jie, *TMC Sept. 2012 1426-1440*

Chang, Chung-Ju, *see* Chung, Wen-Ching, *TMC July 2012 1151-1162*

Chang, Chung-Ju, *see* Lee, Chi-Mao, *TMC Oct. 2012 1569-1584*

Chang, Chung-Ju, *see* Wang, Li-Chun, *TMC Sept. 2012 1499-1513*

Chang, J. Morris, *see* Chi, Kuang-Hui, *TMC Nov. 2012 1640-1651*

Chehade, Hicham, *see* Mourad, Farah, *TMC Aug. 2012 1261-1273*

Chen, Bor-Sen, *see* Chiu, Wei-Yu, *TMC June 2012 935-946*

Chen, Daoxu, *see* Zhang, Tao, *TMC Oct. 2012 1555-1568*

Chen, Dawei, *see* Yin, Sixing, *TMC June 2012 1033-1046*

Chen, Fangfei, Johnson, Matthew P., Alayev, Yosef, Bar-Noy, Amotz, and La Porta, Thomas F., Who, When, Where: Timeslot Assignment to Mobile Clients; *TMC Jan. 2012 73-85*

Chen, Hsiao-Hwa, *see* Xiao, Yang, *TMC Sept. 2012 1532-1544*

Chen, Hui, *see* Xiao, Yang, *TMC Sept. 2012 1532-1544*

Chen, Jiming, *see* He, Shibo, *TMC Nov. 2012 1678-1691*

Chen, Jyh-Cheng, *see* Liu, Zong-Hua, *TMC Jan. 2012 5-18*

Chen, Kuan-Chi, *see* Meng, Ling-San, *TMC June 2012 896-904*

Chen, Li-Jun, *see* Zhang, Tao, *TMC Oct. 2012 1555-1568*

Chen, Ming-Syan, *see* Shen, Chih-Ya, *TMC Oct. 2012 1478-1493*

Chen, Tsuhan, *see* Lu, Mei-Hsuan, *TMC Dec. 2012 1953-1969*

Chen, Wei, *see* Liu, Juan, *TMC Aug. 2012 1412-1423*

Chen, Xi, Gangwal, Prateek, and Qiao, Daji, RAM: Rate Adaptation in Mobile Environments; *TMC March 2012 464-477*

Chen, Ying-Yu, *see* Chung, Wen-Ching, *TMC July 2012 1151-1162*

Chen, Yingying, *see* Yang, Jie, *TMC Sept. 2012 1426-1440*

Chen, Yung-Fu, *see* Wang, You-Chiun, *TMC Aug. 2012 1358-1371*

Chi, Kuang-Hui, Chang, J. Morris, and Wang, Ting-Chung, Enhanced Fast Base Station Switching; *TMC Nov. 2012 1640-1651*

Chiang, Mung, *see* Ouyang, Robin Wentao, *TMC Nov. 2012 1613-1626*

Chintalapudi, Krishnakant, *see* Durmaz Incel, Ozlem, *TMC Jan. 2012 86-99*

Chiu, Wei-Yu, Chen, Bor-Sen, and Yang, Chang-Yi, Robust Relative Location Estimation in Wireless Sensor Networks with Inexact Position Problems; *TMC June 2012 935-946*

Cho, Eung Jun, *see* Kim, Jinho, *TMC Dec. 2012 2060-2072*

Choi, Jae-Ho, Shim, Kyu-Sun, Lee, SangKeun, and Wu, Kun-Lung, Handling Selfishness in Replica Allocation over a Mobile Ad Hoc Network; *TMC Feb. 2012 278-291*

Choi, Jaehyuk, *see* Min, Alexander W., *TMC Dec. 2012 2020-2032*

Chou, Chun Tung, *see* Tu, Wanqing, *TMC June 2012 881-895*

Choudhury, Romit Roy, *see* Manweiler, Justin, *TMC May 2012 739-752*

Choudhury, Sayantan, *see* Lee, Suk-Bok, *TMC Nov. 2012 1652-1665*

Chung, Jong-Moon, and Go, Dong-Chul, Stochastic Vector Mobility Model for Mobile and Vehicular Ad Hoc Network Simulation; *TMC Oct. 2012 1494-1507*

Chung, Wen-Ching, Chang, Chung-Ju, Feng, Kai-Ten, and Chen, Ying-Yu, An MIMO Configuration Mode and MCS Level Selection Scheme by Fuzzy Q-Learning for HSPA+ Systems; *TMC July 2012 1151-1162*
Cordeschi, Nicola, *see* Baccarelli, Enzo, *TMC March 2012 390-401*
Cui, Jun-Hong, *see* Zhou, Zhong, *TMC Jan. 2012 139-154*
Cuomo, Francesca, *see* Abbagnale, Anna, *TMC July 2012 1163-1178*

D

Dandekar, Kapil R., *see* Fridman, Alex, *TMC July 2012 1179-1191*
Das, Sajal K., *see* Roy, Nirmalya, *TMC Feb. 2012 218-229*
David, Klaus, *see* Sigg, Stephan, *TMC June 2012 1047-1059*
Davis, Christopher C., *see* Zhang, Haijun, *TMC July 2012 1207-1222*
Dawy, Zaher, *see* Abdel Khalek, Amin, *TMC July 2012 1223-1236*
Demirkol, Ilker, *see* Feng, Chen-Hsiang, *TMC Feb. 2012 240-253*
Ding, Ling, Wu, Weili, Willson, James, Du, Hongjie, and Lee, Wonjun, Efficient Virtual Backbone Construction with Routing Cost Constraint in Wireless Networks Using Directional Antennas; *TMC July 2012 1102-1112*
Ding, Yong, Huang, Yi, Zeng, Guokai, and Xiao, Li, Using Partially Overlapping Channels to Improve Throughput in Wireless Mesh Networks; *TMC Nov. 2012 1720-1733*
Dinh, Hieu, *see* Wang, Bing, *TMC March 2012 439-452*
Djukic, Petar, and Mohapatra, Prasant, Soft-TDMAC: A Software-Based 802.11 Overlay TDMA MAC with Microsecond Synchronization; *TMC March 2012 478-491*
Dong, Mian, and Zhong, Lin, Power Modeling and Optimization for OLED Displays; *TMC Sept. 2012 1587-1599*
Dong, Mian, and Zhong, Lin, Chameleon: A Color-Adaptive Web Browser for Mobile OLED Displays; *TMC May 2012 724-738*
Du, David H.C., *see* Jeong, Jaehoon (Paul), *TMC Oct. 2012 1523-1537*
Du, Ding-Zhu, *see* Xiao, Yang, *TMC Oct. 2012 1538-1554*
Du, Hongjie, *see* Ding, Ling, *TMC July 2012 1102-1112*
Duan, Lingjie, Huang, Jianwei, and Shou, Biying, Duopoly Competition in Dynamic Spectrum Leasing and Pricing; *TMC Nov. 2012 1706-1719*
Durmaz Incel, Ozlem, Ghosh, Amitabha, Krishnamachari, Bhaskar, and Chintalapudi, Krishnakant, Fast Data Collection in Tree-Based Wireless Sensor Networks; *TMC Jan. 2012 86-99*
Durmus, Yunus, Ozgovde, Atay, and Ersoy, Cem, Distributed and Online Fair Resource Management in Video Surveillance Sensor Networks; *TMC May 2012 835-848*
Dutkiewicz, Eryk, *see* Yu, Kegen, *TMC Feb. 2012 254-263*
Dutkiewicz, Eryk, *see* Yu, Kegen, *TMC April 2012 704*
Dutkiewicz, Eryk, *see* Zhou, Anfu, *TMC Sept. 2012 1559-1571*
Dutta, Debojyoti, *see* Hsu, Wei-Jen, *TMC Nov. 2012 1734-1748*

E

Edwards, James, *see* Eswaran, Sharanya, *TMC Sept. 2012 1484-1498*
Eidenbenz, Stephan, *see* Pelechrinis, Konstantinos, *TMC July 2012 1086-1101*
Eidenbenz, Stephan, *see* Jakllari, Gentian, *TMC Jan. 2012 61-72*
Ersoy, Cem, *see* Durmus, Yunus, *TMC May 2012 835-848*
Eswaran, Sharanya, Edwards, James, Misra, Archan, and La Porta, Thomas F., Adaptive In-Network Processing for Bandwidth and Energy Constrained Mission-Oriented Multihop Wireless Networks; *TMC Sept. 2012 1484-1498*

F

Fafoutis, Xenofon, and Siris, Vasilios A., Handover Incentives for Self-Interested WLANs with Overlapping Coverage; *TMC Dec. 2012 2033-2046*
Faloutsos, Michalis, *see* Jakllari, Gentian, *TMC Jan. 2012 61-72*
Fang, Shih-Hau, and Lin, Tsung-Nan, Principal Component Localization in Indoor WLAN Environments; *TMC Jan. 2012 100-110*
Fang, Xi, *see* Yang, Dejun, *TMC Aug. 2012 1399-1411*
Fang, Yuguang, *see* Pan, Miao, *TMC Dec. 2012 2133-2144*
Fang, Yuguang, *see* Li, Pan, *TMC March 2012 427-438*
Fang, Yuguang, *see* Li, Pan, *TMC Dec. 2012 2073-2086*
Fekri, Faramarz, *see* Ayday, Erman, *TMC Sept. 2012 1514-1531*
Feng, Chen, Au, Wain Sy Anthea, Valaee, Shahrokh, and Tan, Zhenhui, Received-Signal-Strength-Based Indoor Positioning Using Compressive Sensing; *TMC Dec. 2012 1983-1993*
Feng, Chen-Hsiang, Zhang, Yuqun, Demirkol, Ilker, and Heinzelman, Wendi B., Stateless Multicast Protocol for Ad Hoc Networks; *TMC Feb. 2012 240-253*
Feng, Kai-Ten, *see* Chung, Wen-Ching, *TMC July 2012 1151-1162*
Feng, Kai-Ten, *see* Lee, Chi-Mao, *TMC Oct. 2012 1569-1584*
Ferri, Bonnie Heck, *see* Ould-Ahmed-Vall, ElMoustapha, *TMC Dec. 2012 1994-2007*
Fiore, Marco, *see* Trullols-Cruces, Oscar, *TMC April 2012 663-678*
Fridman, Alex, Weber, Steven, Graff, Charles, Breen, David E., Dandekar, Kapil R., and Kam, Moshe, OMAN: A Mobile Ad Hoc Network Design System; *TMC July 2012 1179-1191*
Fu, Luoyi, *see* Wang, Xinbing, *TMC June 2012 970-982*
Fu, Minyue, *see* Wang, Xingbo, *TMC April 2012 567-576*
Fu, Xinwen, Zhang, Nan, Pingley, Aniket, Yu, Wei, Wang, Jie, and Zhao, Wei, The Digital Marauder's Map: A WiFi Forensic Positioning Tool; *TMC March 2012 377-389*
Fyhn, Karsten, Jacobsen, Rasmus Melchoir, Popovski, Petar, and Larsen, Torben, Fast Capture—Recapture Approach for Mitigating the Problem of Missing RFID Tags; *TMC March 2012 518-528*

G

Gan, Xiaoying, *see* Wang, Xinbing, *TMC June 2012 970-982*
Gandhi, Rajiv, Kim, Yoo-Ah, Lee, Seungjoon, Ryu, Jiho, and Wan, Peng-Jun, Approximation Algorithms for Data Broadcast in Wireless Networks; *TMC July 2012 1237-1248*
Gangwal, Prateek, *see* Chen, Xi, *TMC March 2012 464-477*
Garcia-Luna-Aceves, J.J., and Menchaca-Mendez, Rolando, STORM: A Framework for Integrated Routing, Scheduling, and Traffic Management in Ad Hoc Networks; *TMC Aug. 2012 1345-1357*
Garcia-Luna-Aceves, J.J., *see* Wang, Xin, *TMC April 2012 679-691*
Ghosh, Amitabha, *see* Durmaz Incel, Ozlem, *TMC Jan. 2012 86-99*
Gibson, John, *see* Xiao, Yang, *TMC Oct. 2012 1538-1554*
Go, Dong-Chul, *see* Chung, Jong-Moon, *TMC Oct. 2012 1494-1507*
Gordon, Dawud, *see* Sigg, Stephan, *TMC June 2012 1047-1059*
Govindan, Ramesh, and Ramanathan, Ram, Editorial and Changes to the Editorial Board; *TMC Jan. 2012 1-4*
Graff, Charles, *see* Fridman, Alex, *TMC July 2012 1179-1191*
Gruteser, Marco, *see* Yang, Jie, *TMC Sept. 2012 1426-1440*
Gruteser, Marco, *see* Hoh, Baik, *TMC May 2012 849-864*
Gruteser, Marco, *see* Sun, Tingting, *TMC July 2012 1113-1126*
Gruteser, Marco, and Wetherall, David, Guest Editorial: Special Section on Outstanding Papers from MobiSys 2011; *TMC May 2012 705-706*
Gu, Yu (Jason), *see* Jeong, Jaehoon (Paul), *TMC Oct. 2012 1523-1537*
Guizani, Mohsen, *see* Xiao, Yang, *TMC Sept. 2012 1532-1544*
Guney, Aydin, Atakan, Baris, and Akan, Ozgur B., Mobile Ad Hoc Nanonetworks with Collision-Based Molecular Communication; *TMC March 2012 353-366*
Guo, Dong, *see* Li, Keyong, *TMC Dec. 2012 1970-1982*
Guo, Shuo, *see* Jeong, Jaehoon (Paul), *TMC Oct. 2012 1523-1537*

H

Haas, Harald, *see* Sinanović, Sinan, *TMC Dec. 2012 2121-2132*
Haenggi, Martin, *see* Srinivasa, Sunil, *TMC April 2012 618-630*
Han, Bo, Hui, Pan, Kumar, V.S. Anil, Marathe, Madhav V., Shao, Jianhua, and Srinivasan, Aravind, Mobile Data Offloading through Opportunistic Communications and Social Participation; *TMC May 2012 821-834*
Han, Jeong Ae, *see* Jeon, Wha Sook, *TMC June 2012 922-934*
Haseloff, Sandra, *see* Sigg, Stephan, *TMC June 2012 1047-1059*
Hassan, Mahbub, *see* Yao, Jun, *TMC April 2012 603-617*
Haugland, Dag, *see* Yuan, Di, *TMC Dec. 2012 2008-2019*
Haw, Rim, *see* Kim, Jinho, *TMC Dec. 2012 2060-2072*
He, Shibo, Chen, Jiming, Yau, David K.Y., and Sun, Youxian, Cross-Layer Optimization of Correlated Data Gathering in Wireless Sensor Networks; *TMC Nov. 2012 1678-1691*
He, Tian, *see* Jeong, Jaehoon (Paul), *TMC Oct. 2012 1523-1537*
Heinzelman, Wendi B., *see* Yang, Ou, *TMC June 2012 905-921*
Heinzelman, Wendi B., *see* Feng, Chen-Hsiang, *TMC Feb. 2012 240-253*
Helmy, Ahmed, *see* Hsu, Wei-Jen, *TMC Nov. 2012 1734-1748*
Hengartner, Nicolas, *see* Jakllari, Gentian, *TMC Jan. 2012 61-72*
Herrera, Juan Carlos, *see* Hoh, Baik, *TMC May 2012 849-864*
Herring, Ryan, *see* Hoh, Baik, *TMC May 2012 849-864*

Hoh, Baik, Iwuchukwu, Toch, Jacobson, Quinn, Work, Daniel, Bayen, Alexandre M., Herring, Ryan, Herrera, Juan Carlos, Gruteser, Marco, Annavaram, Murali, and Ban, Jeff, Enhancing Privacy and Accuracy in Probe Vehicle-Based Traffic Monitoring via Virtual Trip Lines; *TMC May 2012 849-864*
Hong, Choong Seon, *see* Kim, Jinho, *TMC Dec. 2012 2060-2072*
Hossain, Md. Shohrab, *see* Shahriar, Abu Zafar M., *TMC July 2012 1192-1206*
Hou, Ronghui, Lui, King-Shan, Baker, Fred, and Li, Jiandong, Hop-by-Hop Routing in Wireless Mesh Networks with Bandwidth Guarantees; *TMC Feb. 2012 264-277*
Hou, Y. Thomas, *see* Sharma, Sushant, *TMC July 2012 1073-1085*
Hsiu, Pi-Cheng, *see* Yu, Ya-Ju, *TMC Oct. 2012 1508-1522*
Hsu, Wei-Jen, Dutta, Debojyoti, and Helmy, Ahmed, Structural Analysis of User Association Patterns in University Campus Wireless LANs; *TMC Nov. 2012 1734-1748*
Hua, Cunqing, and Zheng, Rong, Robust Topology Engineering in Multiradio Multichannel Wireless Networks; *TMC March 2012 492-503*
Huang, Chih-Wei, Huang, Shiang-Ming, Wu, Po-Han, Lin, Shiang-Jiun, and Hwang, Jenq-Neng, OLM: Opportunistic Layered Multicasting for Scalable IPTV over Mobile WiMAX; *TMC March 2012 453-463*
Huang, Jianwei, *see* Duan, Lingjie, *TMC Nov. 2012 1706-1719*
Huang, Jun, *see* Xing, Guoliang, *TMC Jan. 2012 47-60*
Huang, Shiang-Ming, *see* Huang, Chih-Wei, *TMC March 2012 453-463*
Huang, Xiaoxia, *see* Li, Pan, *TMC March 2012 427-438*
Huang, Yi, *see* Ding, Yong, *TMC Nov. 2012 1720-1733*
Hui, Pan, *see* Han, Bo, *TMC May 2012 821-834*
Hwang, Jenq-Neng, *see* Huang, Chih-Wei, *TMC March 2012 453-463*

I

Iwuchukwu, Toch, *see* Hoh, Baik, *TMC May 2012 849-864*

J

Jacobsen, Rasmus Melchoir, *see* Fyhn, Karsten, *TMC March 2012 518-528*
Jacobson, Quinn, *see* Hoh, Baik, *TMC May 2012 849-864*
Jakllari, Gentian, Eidenbenz, Stephan, Hengartner, Nicolas, Krishnamurthy, Srikanth V., and Faloutsos, Michalis, Link Positions Matter: A Noncommutative Routing Metric for Wireless Mesh Networks; *TMC Jan. 2012 61-72*
Jenkins, Jonathan P., Kanj, Iyad A., Xia, Ge, and Zhang, Fenghui, Local Construction of Spanners in the 3D Space; *TMC July 2012 1140-1150*
Jeon, Wha Sook, Han, Jeong Ae, and Jeong, Dong Geun, A Novel MAC Scheme for Multichannel Cognitive Radio Ad Hoc Networks; *TMC June 2012 922-934*
Jeon, Won J., *see* Kang, Kyungtae, *TMC Feb. 2012 292-304*
Jeong, Dong Geun, *see* Jeon, Wha Sook, *TMC June 2012 922-934*
Jeong, Jaehoon (Paul), Guo, Shuo, Gu, Yu (Jason), He, Tian, and Du, David H.C., Trajectory-Based Statistical Forwarding for Multihop Infrastructure-to-Vehicle Data Delivery; *TMC Oct. 2012 1523-1537*
Jha, Sanjay K., *see* Tu, Wanqing, *TMC June 2012 881-895*
Jia, Weijia, *see* Xing, Guoliang, *TMC Jan. 2012 47-60*
Jia, Weijia, *see* Peng, Shaoliang, *TMC Aug. 2012 1274-1286*
Jiang, Changjun, *see* Wang, Cheng, *TMC Nov. 2012 1627-1639*
Jiang, Zaihan, *see* Zhou, Zhong, *TMC Jan. 2012 139-154*
Jindal, Apoorva, Psounis, Konstantinos, and Liu, Mingyan, CapEst: A Measurement-Based Approach to Estimating Link Capacity in Wireless Networks; *TMC Dec. 2012 2098-2108*
Johnson, Matthew P., *see* Chen, Fangfei, *TMC Jan. 2012 73-85*
Joo, Changhee, and Shroff, Ness B., Local Greedy Approximation for Scheduling in Multihop Wireless Networks; *TMC March 2012 414-426*
Julien, Christine, *see* Roy, Nirmalya, *TMC Feb. 2012 218-229*
Jung, Eric, *see* Xu, Dan, *TMC Aug. 2012 1372-1385*

K

Kale, Nachiket V., and Salapaka, Srinivasa M., Maximum Entropy Principle-Based Algorithm for Simultaneous Resource Location and Multihop Routing in Multiagent Networks; *TMC April 2012 591-602*
Kam, Moshe, *see* Fridman, Alex, *TMC July 2012 1179-1191*
Kang, Kyungtae, and Jeon, Won J., Differentiated Protection of Video Layers to Improve Perceived Quality; *TMC Feb. 2012 292-304*
Kanhere, Salil S., *see* Yao, Jun, *TMC April 2012 603-617*
Kanj, Iyad A., *see* Jenkins, Jonathan P., *TMC July 2012 1140-1150*
Khabbazian, Majid, Blake, Ian F., and Bhargava, Vijay K., Local Broadcast Algorithms in Wireless Ad Hoc Networks: Reducing the Number of Transmissions; *TMC March 2012 402-413*
Khan, Jamil Y., *see* Ong, Eng Hwee, *TMC May 2012 807-820*
Kim, Byoungjip, *see* Lee, Youngki, *TMC April 2012 644-662*
Kim, Dong-Wook, *see* Lim, Wan-Seon, *TMC May 2012 780-792*
Kim, Hyoil, and Shin, Kang G., Admission and Eviction Control of Cognitive Radio Users at Wi-Fi 2.0 Hotspots; *TMC Nov. 2012 1666-1677*
Kim, Jinho, Haw, Rim, Cho, Eung Jun, Hong, Choong Seon, and Lee, Sungwon, A 6LoWPAN Sensor Node Mobility Scheme Based on Proxy Mobile IPv6; *TMC Dec. 2012 2060-2072*
Kim, Jungwoo, *see* Lee, Youngki, *TMC April 2012 644-662*
Kim, Yoo-Ah, *see* Gandhi, Rajiv, *TMC July 2012 1237-1248*
Kompella, Sastry, *see* Sharma, Sushant, *TMC July 2012 1073-1085*
Koukoumidis, Emmanouil, Martonosi, Margaret, and Peh, Li-Shiuan, Leveraging Smartphone Cameras for Collaborative Road Advisories; *TMC May 2012 707-723*
Krifa, Amir, Barakat, Chadi, and Spyropoulos, Thrasyvoulos, Message Drop and Scheduling in DTNs: Theory and Practice; *TMC Sept. 2012 1470-1483*
Krishnamachari, Bhaskar, *see* Durmaz Incel, Ozlem, *TMC Jan. 2012 86-99*
Krishnamurthy, Srikanth V., *see* Jakllari, Gentian, *TMC Jan. 2012 61-72*
Krishnamurthy, Srikanth V., *see* Pelechrinis, Konstantinos, *TMC July 2012 1086-1101*
Krunz, Marwan, *see* Liu, Sisi, *TMC Oct. 2012 1436-1449*
Krunz, Marwan, *see* Liu, Sisi, *TMC Sept. 2012 1545-1558*
Kučera, Štěpán, Kučera, Luděk, and Zhang, Bing, Efficient Distributed Algorithms for Dynamic Access to Shared Multiuser Channels in SINR-Constrained Wireless Networks; *TMC Dec. 2012 2087-2097*
Kučera, Luděk, *see* Kučera, Štěpán, *TMC Dec. 2012 2087-2097*
Kumar, Anurag, *see* Ramaiyan, Venkatesh, *TMC Nov. 2012 1601-1612*
Kumar, V.S. Anil, *see* Han, Bo, *TMC May 2012 821-834*

L

La Porta, Thomas F., *see* Chen, Fangfei, *TMC Jan. 2012 73-85*
La Porta, Thomas F., *see* Eswaran, Sharanya, *TMC Sept. 2012 1484-1498*
La, Richard J., and Seo, Eunyoung, Network Connectivity with a Family of Group Mobility Models; *TMC March 2012 504-517*
Lai, Yuan-Cheng, and Lin, Chih-Chung, Two Couple-Resolution Blocking Protocols on Adaptive Query Splitting for RFID Tag Identification; *TMC Oct. 2012 1450-1463*
Larsen, Torben, *see* Fyhn, Karsten, *TMC March 2012 518-528*
Law, Yee Wei, *see* Yen, Li-Hsing, *TMC April 2012 692-703*
Lazos, Loukas, *see* Liu, Sisi, *TMC Sept. 2012 1545-1558*
Lazos, Loukas, *see* Liu, Sisi, *TMC Oct. 2012 1436-1449*
Le, Long Bao, *see* Lee, Hyang-Won, *TMC April 2012 577-590*
Lea, Chin-Tau, *see* Ouyang, Robin Wentao, *TMC Nov. 2012 1613-1626*
Lee, Bu-Sung, *see* Yang, Shengbo, *TMC Jan. 2012 111-124*
Lee, Chi-Mao, Lin, Jia-Shi, Feng, Kai-Ten, and Chang, Chung-Ju, Design and Analysis of Transmission Strategies in Channel-Hopping Cognitive Radio Networks; *TMC Oct. 2012 1569-1584*
Lee, Hyang-Won, Modiano, Eytan, and Le, Long Bao, Distributed Throughput Maximization in Wireless Networks via Random Power Allocation; *TMC April 2012 577-590*
Lee, SangJeong, *see* Lee, Youngki, *TMC April 2012 644-662*
Lee, SangKeun, *see* Choi, Jae-Ho, *TMC Feb. 2012 278-291*
Lee, Seungjoon, *see* Gandhi, Rajiv, *TMC July 2012 1237-1248*
Lee, Suk-Bok, Pefkianakis, Ioannis, Choudhury, Sayantan, Xu, Shugong, and Lu, Songwu, Exploiting Spatial, Frequency, and Multiuser Diversity in 3GPP LTE Cellular Networks; *TMC Nov. 2012 1652-1665*
Lee, Sungwon, *see* Kim, Jinho, *TMC Dec. 2012 2060-2072*
Lee, Tae-Jin, *see* Park, Jongho, *TMC June 2012 959-969*
Lee, Won-Yeol, and Akyildiz, Ian F., Spectrum-Aware Mobility Management in Cognitive Radio Cellular Networks; *TMC April 2012 529-542*
Lee, Wonjun, *see* Ding, Ling, *TMC July 2012 1102-1112*
Lee, Youngki, Lee, SangJeong, Kim, Byoungjip, Kim, Jungwoo, Rhee, Yunseok, and Song, Junehwa, Scalable Activity-Travel Pattern Monitoring Framework for Large-Scale City Environment; *TMC April 2012 644-662*
Leung, Kin K., *see* Liu, Erwu, *TMC Feb. 2012 230-239*
Li, Hongyan, *see* Pan, Miao, *TMC Dec. 2012 2133-2144*
Li, Jiandong, *see* Hou, Ronghui, *TMC Feb. 2012 264-277*
Li, Jie, *see* Li, Pan, *TMC March 2012 427-438*

Li, Keyong, Guo, Dong, Lin, Yingwei, and Paschalidis, Ioannis Ch., Position and Movement Detection of Wireless Sensor Network Devices Relative to a Landmark Graph; *TMC Dec. 2012 1970-1982*
Li, Minming, *see* Xing, Guoliang, *TMC Jan. 2012 47-60*
Li, Mo, *see* Zheng, Yuanqing, *TMC Nov. 2012 1763-1774*
Li, Pan, Fang, Yuguang, Li, Jie, and Huang, Xiaoxia, Smooth Trade-Offs between Throughput and Delay in Mobile Ad Hoc Networks; *TMC March 2012 427-438*
Li, Pan, and Fang, Yuguang, On the Throughput Capacity of Heterogeneous Wireless Networks; *TMC Dec. 2012 2073-2086*
Li, Shanshan, *see* Peng, Shaoliang, *TMC Aug. 2012 1274-1286*
Li, Shufang, *see* Yin, Sixing, *TMC June 2012 1033-1046*
Li, Xiang-Yang, *see* Wang, Cheng, *TMC Nov. 2012 1627-1639*
Li, Xiang-Yang, *see* Nusairat, Ashraf, *TMC Nov. 2012 1692-1705*
Li, Ze, and Shen, Haiying, Game-Theoretic Analysis of Cooperation Incentive Strategies in Mobile Ad Hoc Networks; *TMC Aug. 2012 1287-1303*
Li, Zhongcheng, *see* Zhou, Anfu, *TMC Sept. 2012 1559-1571*
Liang, Quanquan, Liu, Mingyan, and Yuan, Dongfeng, Channel Estimation for Opportunistic Spectrum Access: Uniform and Random Sensing; *TMC Aug. 2012 1304-1316*
Lim, Wan-Seon, Kim, Dong-Wook, and Suh, Young-Joo, Design of Efficient Multicast Protocol for IEEE 802.11n WLANs and Cross-Layer Optimization for Scalable Video Streaming; *TMC May 2012 780-792*
Lin, Chih-Chung, *see* Lai, Yuan-Cheng, *TMC Oct. 2012 1450-1463*
Lin, Jia-Shi, *see* Lee, Chi-Mao, *TMC Oct. 2012 1569-1584*
Lin, Shiang-Jiun, *see* Huang, Chih-Wei, *TMC March 2012 453-463*
Lin, Tsung-Nan, *see* Fang, Shih-Hau, *TMC Jan. 2012 100-110*
Lin, Yingwei, *see* Li, Keyong, *TMC Dec. 2012 1970-1982*
Ling, Xinhua, *see* Luan, Tom H., *TMC Feb. 2012 305-319*
Liu, Donggang, *see* Mehta, Kiran, *TMC Feb. 2012 320-336*
Liu, Erwu, Zhang, Qinqing, and Leung, Kin K., Relay-Assisted Transmission with Fairness Constraint for Cellular Networks; *TMC Feb. 2012 230-239*
Liu, Hongbo, *see* Yang, Jie, *TMC Sept. 2012 1426-1440*
Liu, Jia, *see* Sharma, Sushant, *TMC July 2012 1073-1085*
Liu, Jiangchuan, *see* Wang, Feng, *TMC May 2012 767-779*
Liu, Jing, *see* Wang, Xinbing, *TMC June 2012 970-982*
Liu, Juan, Chen, Wei, Cao, Zhigang, and Zhang, Ying Jun (Angela), Delay Optimal Scheduling for Cognitive Radios with Cooperative Beamforming: A Structured Matrix-Geometric Method; *TMC Aug. 2012 1412-1423*
Liu, Min, *see* Zhou, Anfu, *TMC Sept. 2012 1559-1571*
Liu, Mingyan, *see* Yin, Sixing, *TMC June 2012 1033-1046*
Liu, Mingyan, *see* Liang, Quanquan, *TMC Aug. 2012 1304-1316*
Liu, Mingyan, *see* Jindal, Apoorva, *TMC Dec. 2012 2098-2108*
Liu, Sisi, Lazos, Loukas, and Krunz, Marwan, Cluster-Based Control Channel Allocation in Opportunistic Cognitive Radio Networks; *TMC Oct. 2012 1436-1449*
Liu, Sisi, Lazos, Loukas, and Krunz, Marwan, Thwarting Control-Channel Jamming Attacks from Inside Jammers; *TMC Sept. 2012 1545-1558*
Liu, Xin, *see* Xu, Dan, *TMC Aug. 2012 1372-1385*
Liu, Yunhao, *see* Yang, Zheng, *TMC Aug. 2012 1249-1260*
Liu, Yunhuai, *see* Wu, Kaishun, *TMC Aug. 2012 1317-1330*
Liu, Yunhuai, *see* Wu, Kaishun, *TMC April 2012 543-552*
Liu, Zong-Hua, and Chen, Jyh-Cheng, Design and Analysis of the Gateway Relocation and Admission Control Algorithm in Mobile WiMAX Networks; *TMC Jan. 2012 5-18*
Llorca, Jaime, *see* Zhang, Haijun, *TMC July 2012 1207-1222*
Lo, Hung-Yi, *see* Meng, Ling-San, *TMC June 2012 896-904*
Lu, Mei-Hsuan, Steenkiste, Peter, and Chen, Tsuhan, Opportunistic Retransmission in WLANs; *TMC Dec. 2012 1953-1969*
Lu, Songwu, *see* Lee, Suk-Bok, *TMC Nov. 2012 1652-1665*
Lu, Zhuo, Wang, Wenye, and Wang, Cliff, Modeling and Performance Evaluation of Backoff Misbehaving Nodes in CSMA/CA Networks; *TMC Aug. 2012 1331-1344*
Luan, Tom H., Ling, Xinhua, and Shen, Xuemin (Sherman), MAC in Motion: Impact of Mobility on the MAC of Drive-Thru Internet; *TMC Feb. 2012 305-319*
Lui, King-Shan, *see* Hou, Ronghui, *TMC Feb. 2012 264-277*
Luo, Tie, Motani, Mehul, and Srinivasan, Vikram, Energy-Efficient Strategies for Cooperative Multichannel MAC Protocols; *TMC April 2012 553-566*

M

Madhow, Upamanyu, *see* Singh, Sumit, *TMC March 2012 367-376*
Mahata, Kaushik, *see* Ong, Eng Hwee, *TMC May 2012 807-820*
Mahmoud, Mohamed M.E.A., and Shen, Xuemin (Sherman), FESCIM: Fair, Efficient, and Secure Cooperation Incentive Mechanism for Multihop Cellular Networks; *TMC May 2012 753-766*
Mahonen, Petri, *see* van de Beek, Jaap, *TMC Feb. 2012 178-188*
Mahonen, Petri, and Zheng, Haitao (Heather), Guest Editorial: Special Section on Outstanding Papers from DySPAN 2011; *TMC Feb. 2012 177*
Manweiler, Justin, and Choudhury, Romit Roy, Avoiding the Rush Hours: WiFi Energy Management via Traffic Isolation; *TMC May 2012 739-752*
Marathe, Madhav V., *see* Han, Bo, *TMC May 2012 821-834*
Martin, Richard P., *see* Yang, Jie, *TMC Sept. 2012 1426-1440*
Martonosi, Margaret, *see* Koukoumidis, Emmanouil, *TMC May 2012 707-723*
Mastelic, Toni, *see* Perkovic, Toni, *TMC Feb. 2012 337-351*
Mehta, Kiran, Liu, Donggang, and Wright, Matthew, Protecting Location Privacy in Sensor Networks against a Global Eavesdropper; *TMC Feb. 2012 320-336*
Melodia, Tommaso, *see* Pudlewski, Scott, *TMC June 2012 1060-1072*
Menchaca-Mendez, Rolando, *see* Garcia-Luna-Aceves, J.J., *TMC Aug. 2012 1345-1357*
Meng, Ling-San, Shiu, Da-Shan, Yeh, Ping-Cheng, Chen, Kuan-Chi, and Lo, Hung-Yi, Low Power Consumption Solutions for Mobile Instant Messaging; *TMC June 2012 896-904*
Midkiff, Scott F., *see* Sharma, Sushant, *TMC July 2012 1073-1085*
Miller, Rob, and Trappe, Wade, On the Vulnerabilities of CSI in MIMO Wireless Communication Systems; *TMC Aug. 2012 1386-1398*
Milner, Stuart D., *see* Zhang, Haijun, *TMC July 2012 1207-1222*
Min, Alexander W., Zhang, Xinyu, Choi, Jaehyuk, and Shin, Kang G., Exploiting Spectrum Heterogeneity in Dynamic Spectrum Market; *TMC Dec. 2012 2020-2032*
Misra, Archan, *see* Eswaran, Sharanya, *TMC Sept. 2012 1484-1498*
Misra, Archan, *see* Tu, Wanqing, *TMC June 2012 881-895*
Misra, Satyajayant, *see* Yang, Dejun, *TMC Aug. 2012 1399-1411*
Modiano, Eytan, *see* Lee, Hyang-Won, *TMC April 2012 577-590*
Mohapatra, Prasant, *see* Djukic, Petar, *TMC March 2012 478-491*
Moscibroda, Thomas, *see* Murty, Rohan, *TMC Feb. 2012 189-203*
Motani, Mehul, *see* Luo, Tie, *TMC April 2012 553-566*
Mourad, Farah, Chehade, Hicham, Snoussi, Hichem, Yalaoui, Farouk, Amodeo, Lionel, and Richard, Cedric, Controlled Mobility Sensor Networks for Target Tracking Using Ant Colony Optimization; *TMC Aug. 2012 1261-1273*
Murty, Rohan, Chandra, Ranveer, Moscibroda, Thomas, and Bahl, Paramvir (Victor), SenseLess: A Database-Driven White Spaces Network; *TMC Feb. 2012 189-203*

N

Nandagopal, Thyaga, Guest Editorial: Special Section on Outstanding Papers from MobiCom 2011; *TMC Sept. 2012 1425*
Ngan, Hoi-Lun, *see* Wu, Kaishun, *TMC April 2012 543-552*
Nguyen, Nam P., *see* Xuan, Ying, *TMC May 2012 793-806*
Ni, Lionel M., *see* Wu, Kaishun, *TMC Aug. 2012 1317-1330*
Ni, Lionel M., *see* Wu, Kaishun, *TMC April 2012 543-552*
Ni, Yi Qing, *see* Zhang, Tao, *TMC Oct. 2012 1555-1568*
Nusairat, Ashraf, and Li, Xiang-Yang, WiMAX/OFDMA Burst Scheduling Algorithm to Maximize Scheduled Data; *TMC Nov. 2012 1692-1705*

O

Ong, Eng Hwee, Khan, Jamil Y., and Mahata, Kaushik, Radio Resource Management of Composite Wireless Networks: Predictive and Reactive Approaches; *TMC May 2012 807-820*
Ould-Ahmed-Vall, ElMoustapha, Ferri, Bonnie Heck, and Riley, George F., Distributed Fault-Tolerance for Event Detection Using Heterogeneous Wireless Sensor Networks; *TMC Dec. 2012 1994-2007*
Ouyang, Robin Wentao, Wong, Albert Kai-Sun, Lea, Chin-Tau, and Chiang, Mung, Indoor Location Estimation with Reduced Calibration Exploiting Unlabeled Data via Hybrid Generative/Discriminative Learning; *TMC Nov. 2012 1613-1626*
Ozgovde, Atay, *see* Durmus, Yunus, *TMC May 2012 835-848*

P

Palaniswami, Marimuthu, *see* Yen, Li-Hsing, *TMC April 2012 692-703*
Pan, Miao, Yue, Hao, Fang, Yuguang, and Li, Hongyan, The X Loss: Band-Mix Selection for Opportunistic Spectrum Accessing with Uncertain Spectrum Supply from Primary Service Providers; *TMC Dec. 2012 2133-2144*
Pang, Ai-Chun, *see* Yu, Ya-Ju, *TMC Oct. 2012 1508-1522*
Park, Jongho, and Lee, Tae-Jin, Error Resilient Estimation and Adaptive Binary Selection for Fast and Reliable Identification of RFID Tags in Error-Prone Channel; *TMC June 2012 959-969*
Paschalidis, Ioannis Ch., *see* Li, Keyong, *TMC Dec. 2012 1970-1982*
Patriarca, Tatiana, *see* Baccarelli, Enzo, *TMC March 2012 390-401*
Pattipati, Krishna R., *see* Wang, Bing, *TMC March 2012 439-452*
Patwari, Neal, *see* Wilson, Joey, *TMC June 2012 947-958*
Patwari, Neal, *see* Zhao, Yang, *TMC May 2012 865-877*
Pefkianakis, Ioannis, *see* Lee, Suk-Bok, *TMC Nov. 2012 1652-1665*
Peh, Li-Shiuan, *see* Koukoumidis, Emmanouil, *TMC May 2012 707-723*
Pelechrinis, Konstantinos, Yan, Guanhua, Eidenbenz, Stephan, and Krishnamurthy, Srikanth V., Detection of Selfish Manipulation of Carrier Sensing in 802.11 Networks; *TMC July 2012 1086-1101*
Peng, Miao, *see* Xiao, Yang, *TMC Oct. 2012 1538-1554*
Peng, Qiuyu, *see* Wang, Xinbing, *TMC June 2012 970-982*
Peng, Shaoliang, Xing, Guoliang, Li, Shanshan, Jia, Weijia, and Peng, Yuxing, Fast Release/Capture Sampling in Large-Scale Sensor Networks; *TMC Aug. 2012 1274-1286*
Peng, Yuxing, *see* Peng, Shaoliang, *TMC Aug. 2012 1274-1286*
Peng, Zheng, *see* Zhou, Zhong, *TMC Jan. 2012 139-154*
Perkovic, Toni, Cagalj, Mario, Mastelic, Toni, Saxena, Nitesh, and Begusic, Dinko, Secure Initialization of Multiple Constrained Wireless Devices for an Unaided User; *TMC Feb. 2012 337-351*
Pingley, Aniket, *see* Fu, Xinwen, *TMC March 2012 377-389*
Plummer Jr., Anthony, Taghizadeh, Mahmoud, and Biswas, Subir, Measurement-Based Bandwidth Scavenging in Wireless Networks; *TMC Jan. 2012 19-32*
Popovski, Petar, *see* Fyhn, Karsten, *TMC March 2012 518-528*
Prasanna, Arvind, *see* Pudlewski, Scott, *TMC June 2012 1060-1072*
Psounis, Konstantinos, *see* Jindal, Apoorva, *TMC Dec. 2012 2098-2108*
Pudlewski, Scott, Melodia, Tommaso, and Prasanna, Arvind, Compressed-Sensing-Enabled Video Streaming for Wireless Multimedia Sensor Networks; *TMC June 2012 1060-1072*

Q

Qiao, Daji, *see* Chen, Xi, *TMC March 2012 464-477*

R

Rabbat, Michael G., *see* Zhao, Yang, *TMC May 2012 865-877*
Ramaiyan, Venkatesh, Kumar, Anurag, and Altman, Eitan, Optimal Hop Distance and Power Control for a Single Cell, Dense, Ad Hoc Wireless Network; *TMC Nov. 2012 1601-1612*
Ramanathan, Ram, *see* Govindan, Ramesh, *TMC Jan. 2012 1-4*
Rayanchu, Shravan, Shrivastava, Vivek, Banerjee, Suman, and Chandra, Ranveer, FLUID: Improving Throughputs in Enterprise Wireless LANs through Flexible Channelization; *TMC Sept. 2012 1455-1469*
Rhee, Yunseok, *see* Lee, Youngki, *TMC April 2012 644-662*
Richard, Cedric, *see* Mourad, Farah, *TMC Aug. 2012 1261-1273*
Riihijarvi, Janne, *see* van de Beek, Jaap, *TMC Feb. 2012 178-188*
Riley, George F., *see* Ould-Ahmed-Vall, ElMoustapha, *TMC Dec. 2012 1994-2007*
Ros, Francisco Javier, Ruiz, Pedro Miguel, and Stojmenovic, Ivan, Acknowledgment-Based Broadcast Protocol for Reliable and Efficient Data Dissemination in Vehicular Ad Hoc Networks; *TMC Jan. 2012 33-46*
Roy, Nirmalya, Das, Sajal K., and Julien, Christine, Resource-Optimized Quality-Assured Ambiguous Context Mediation Framework in Pervasive Environments; *TMC Feb. 2012 218-229*
Ruiz, Pedro Miguel, *see* Ros, Francisco Javier, *TMC Jan. 2012 33-46*
Ryu, Jiho, *see* Gandhi, Rajiv, *TMC July 2012 1237-1248*

S

Sadjadpour, Hamid R., *see* Wang, Xin, *TMC April 2012 679-691*
Saito, Hiroshi, Shimogawa, Shinsuke, Tanaka, Sadaharu, and Shioda, Shigeo, Estimating Parameters of Multiple Heterogeneous Target Objects Using Composite Sensor Nodes; *TMC Jan. 2012 125-138*
Salapaka, Srinivasa M., *see* Kale, Nachiket V., *TMC April 2012 591-602*
Sathyan, Thuraiappah, *see* Sharp, Ian, *TMC June 2012 1021-1032*
Saxena, Nitesh, *see* Perkovic, Toni, *TMC Feb. 2012 337-351*
Schilcher, Udo, Bettstetter, Christian, and Brandner, Günther, Temporal Correlation of Interference in Wireless Networks with Rayleigh Block Fading; *TMC Dec. 2012 2109-2120*
Seo, Eunyoung, *see* La, Richard J., *TMC March 2012 504-517*
Shahriar, Abu Zafar M., Hossain, Md. Shohrab, and Atiquzzaman, Mohammed, A Cost Analysis Framework for NEMO Prefix Delegation-Based Schemes; *TMC July 2012 1192-1206*
Shao, Jianhua, *see* Han, Bo, *TMC May 2012 821-834*
Sharif-Nassab, Arsalan, and Ashtiani, Farid, Connectivity Analysis of One-Dimensional Ad Hoc Networks with Arbitrary Spatial Distribution for Variable and Fixed Number of Nodes; *TMC Oct. 2012 1425-1435*
Sharma, Sushant, Shi, Yi, Liu, Jia, Hou, Y. Thomas, Kompella, Sastry, and Midkiff, Scott F., Network Coding in Cooperative Communications: Friend or Foe?; *TMC July 2012 1073-1085*
Sharp, Ian, Yu, Kegen, and Sathyan, Thuraiappah, Positional Accuracy Measurement and Error Modeling for Mobile Tracking; *TMC June 2012 1021-1032*
Shen, Chih-Ya, Yang, De-Nian, and Chen, Ming-Syan, Collaborative and Distributed Search System with Mobile Devices; *TMC Oct. 2012 1478-1493*
Shen, Haiying, *see* Li, Ze, *TMC Aug. 2012 1287-1303*
Shen, Xuemin (Sherman), *see* Luan, Tom H., *TMC Feb. 2012 305-319*
Shen, Xuemin (Sherman), *see* Mahmoud, Mohamed M.E.A., *TMC May 2012 753-766*
Shen, Yilin, *see* Xuan, Ying, *TMC May 2012 793-806*
Shi, Yi, *see* Sharma, Sushant, *TMC July 2012 1073-1085*
Shim, Kyu-Sun, *see* Choi, Jae-Ho, *TMC Feb. 2012 278-291*
Shimogawa, Shinsuke, *see* Saito, Hiroshi, *TMC Jan. 2012 125-138*
Shin, Hyojeong, Talipov, Elmurod, and Cha, Hojung, Spectrum: Lightweight Hybrid Address Autoconfiguration Protocol Based on Virtual Coordinates for 6LoWPAN; *TMC Nov. 2012 1749-1762*
Shin, Kang G., *see* Kim, Hyoil, *TMC Nov. 2012 1666-1677*
Shin, Kang G., *see* Min, Alexander W., *TMC Dec. 2012 2020-2032*
Shin, Kang G., *see* Zhang, Xinyu, *TMC Sept. 2012 1441-1454*
Shioda, Shigeo, *see* Saito, Hiroshi, *TMC Jan. 2012 125-138*
Shiu, Da-Shan, *see* Meng, Ling-San, *TMC June 2012 896-904*
Shou, Biying, *see* Duan, Lingjie, *TMC Nov. 2012 1706-1719*
Shrivastava, Vivek, *see* Rayanchu, Shravan, *TMC Sept. 2012 1455-1469*
Shroff, Ness B., *see* Joo, Changhee, *TMC March 2012 414-426*
Sidhom, Simon, *see* Yang, Jie, *TMC Sept. 2012 1426-1440*
Sigg, Stephan, Gordon, Dawud, von Zengen, Georg, Beigl, Michael, Haseloff, Sandra, and David, Klaus, Investigation of Context Prediction Accuracy for Different Context Abstraction Levels; *TMC June 2012 1047-1059*
Sinanović, Sinan, Burchardt, Harald, Haas, Harald, and Auer, Gunther, Sum Rate Increase via Variable Interference Protection; *TMC Dec. 2012 2121-2132*
Singh, Sumit, Madhow, Upamanyu, and Belding, Elizabeth M., Shaping Throughput Profiles in Multihop Wireless Networks: A Resource-Biasing Approach; *TMC March 2012 367-376*
Siris, Vasilios A., *see* Fafoutis, Xenofon, *TMC Dec. 2012 2033-2046*
Snoussi, Hichem, *see* Mourad, Farah, *TMC Aug. 2012 1261-1273*
Song, Junehwa, *see* Lee, Youngki, *TMC April 2012 644-662*
Song, Yi, and Xie, Jiang, ProSpect: A Proactive Spectrum Handoff Framework for Cognitive Radio Ad Hoc Networks without Common Control Channel; *TMC July 2012 1127-1139*
Spyropoulos, Thrasyvoulos, *see* Krifa, Amir, *TMC Sept. 2012 1470-1483*
Sreenan, Cormac J., *see* Tu, Wanqing, *TMC June 2012 881-895*
Srinivasa, Sunil, and Haenggi, Martin, A Statistical Mechanics-Based Framework to Analyze Ad Hoc Networks with Random Access; *TMC April 2012 618-630*
Srinivasan, Aravind, *see* Han, Bo, *TMC May 2012 821-834*
Srinivasan, Vikram, *see* Luo, Tie, *TMC April 2012 553-566*
Steenkiste, Peter, *see* Lu, Mei-Hsuan, *TMC Dec. 2012 1953-1969*
Stojmenovic, Ivan, *see* Ros, Francisco Javier, *TMC Jan. 2012 33-46*
Suh, Young-Joo, *see* Lim, Wan-Seon, *TMC May 2012 780-792*
Suh, Young-Joo, *see* Baek, Joo-Young, *TMC Jan. 2012 155-168*

+ Check author entry for coauthors

Sun, Tingting, Zan, Bin, Zhang, Yanyong, and Gruteser, Marco, The Boomerang Protocol: Tying Data to Geographic Locations in Mobile Disconnected Networks; *TMC July 2012 1113-1126*
Sun, Youxian, *see* He, Shibo, *TMC Nov. 2012 1678-1691*

T

Taghizadeh, Mahmoud, *see* Plummer Jr., Anthony, *TMC Jan. 2012 19-32*
Talipov, Elmurod, *see* Shin, Hyojeong, *TMC Nov. 2012 1749-1762*
Tan, Haoyu, *see* Wu, Kaishun, *TMC April 2012 543-552*
Tan, Haoyu, *see* Wu, Kaishun, *TMC Aug. 2012 1317-1330*
Tan, Zhenhui, *see* Feng, Chen, *TMC Dec. 2012 1983-1993*
Tanaka, Sadaharu, *see* Saito, Hiroshi, *TMC Jan. 2012 125-138*
Tang, Shaojie, *see* Wang, Cheng, *TMC Nov. 2012 1627-1639*
Thai, My T., *see* Xuan, Ying, *TMC May 2012 793-806*
Tian, Xiaohua, *see* Wang, Xinbing, *TMC June 2012 970-982*
Trappe, Wade, *see* Miller, Rob, *TMC Aug. 2012 1386-1398*
Traynor, Patrick, Characterizing the Security Implications of Third-Party Emergency Alert Systems over Cellular Text Messaging Services; *TMC June 2012 983-994*
Trullols-Cruces, Oscar, Fiore, Marco, and Barcelo-Ordinas, Jose M., Cooperative Download in Vehicular Environments; *TMC April 2012 663-678*
Tseng, Yu-Chee, *see* Wang, You-Chiun, *TMC Aug. 2012 1358-1371*
Tu, Wanqing, Sreenan, Cormac J., Chou, Chun Tung, Misra, Archan, and Jha, Sanjay K., Resource-Aware Video Multicasting via Access Gateways in Wireless Mesh Networks; *TMC June 2012 881-895*

V

Valaee, Shahrokh, *see* Feng, Chen, *TMC Dec. 2012 1983-1993*
van de Beek, Jaap, Riihijarvi, Janne, Achtzehn, Andreas, and Mahonen, Petri, TV White Space in Europe; *TMC Feb. 2012 178-188*
Vasilakos, Athanasios V., *see* Xiao, Yang, *TMC Oct. 2012 1538-1554*
von Zengen, Georg, *see* Sigg, Stephan, *TMC June 2012 1047-1059*
Vu, Tam, *see* Yang, Jie, *TMC Sept. 2012 1426-1440*

W

Wan, Peng-Jun, *see* Gandhi, Rajiv, *TMC July 2012 1237-1248*
Wang, Bing, Wei, Wei, Dinh, Hieu, Zeng, Wei, and Pattipati, Krishna R., Fault Localization Using Passive End-to-End Measurements and Sequential Testing for Wireless Sensor Networks; *TMC March 2012 439-452*
Wang, Cheng, Tang, Shaojie, Li, Xiang-Yang, and Jiang, Changjun, Multicast Capacity Scaling Laws for Multihop Cognitive Networks; *TMC Nov. 2012 1627-1639*
Wang, Chung-Wei, *see* Wang, Li-Chun, *TMC Sept. 2012 1499-1513*
Wang, Cliff, *see* Lu, Zhuo, *TMC Aug. 2012 1331-1344*
Wang, Dan, *see* Zhang, Tao, *TMC Oct. 2012 1555-1568*
Wang, Di, and Abouzeid, Alhussein A., On the Cost of Knowledge of Mobility in Dynamic Networks: An Information-Theoretic Approach; *TMC June 2012 995-1006*
Wang, Feng, and Liu, Jiangchuan, On Reliable Broadcast in Low Duty-Cycle Wireless Sensor Networks; *TMC May 2012 767-779*
Wang, Jie, *see* Fu, Xinwen, *TMC March 2012 377-389*
Wang, Li-Chun, Wang, Chung-Wei, and Chang, Chung-Ju, Modeling and Analysis for Spectrum Handoffs in Cognitive Radio Networks; *TMC Sept. 2012 1499-1513*
Wang, Pu, and Akyildiz, Ian F., On the Origins of Heavy-Tailed Delay in Dynamic Spectrum Access Networks; *TMC Feb. 2012 204-217*
Wang, Tian, *see* Xing, Guoliang, *TMC Jan. 2012 47-60*
Wang, Ting-Chung, *see* Chi, Kuang-Hui, *TMC Nov. 2012 1640-1651*
Wang, Wenye, *see* Lu, Zhuo, *TMC Aug. 2012 1331-1344*
Wang, Xin, Garcia-Luna-Aceves, J.J., and Sadjadpour, Hamid R., Understanding the Interaction between Packet Forwarding and Channel Access in Multihop Wireless Networks; *TMC April 2012 679-691*
Wang, Xin, *see* Xiang, Xiaojing, *TMC Sept. 2012 1572-1586*
Wang, Xinbing, Fu, Luoyi, Tian, Xiaohua, Bei, Yuanzhe, Peng, Qiuyu, Gan, Xiaoying, Yu, Hui, and Liu, Jing, Converge Cast: On the Capacity and Delay Tradeoffs; *TMC June 2012 970-982*
Wang, Xingbo, Fu, Minyue, and Zhang, Huanshui, Target Tracking in Wireless Sensor Networks Based on the Combination of KF and MLE Using Distance Measurements; *TMC April 2012 567-576*
Wang, You-Chiun, Chen, Yung-Fu, and Tseng, Yu-Chee, Using Rotatable and Directional (R&D) Sensors to Achieve Temporal Coverage of Objects and Its Surveillance Application; *TMC Aug. 2012 1358-1371*
Wang, Zhonghai, and Zekavat, Seyed A. (Reza), Omnidirectional Mobile NLOS Identification and Localization via Multiple Cooperative Nodes; *TMC Dec. 2012 2047-2059*
Weber, Steven, *see* Fridman, Alex, *TMC July 2012 1179-1191*
Wei, Wei, *see* Wang, Bing, *TMC March 2012 439-452*
Wetherall, David, *see* Gruteser, Marco, *TMC May 2012 705-706*
Willson, James, *see* Ding, Ling, *TMC July 2012 1102-1112*
Wilson, Joey, and Patwari, Neal, A Fade-Level Skew-Laplace Signal Strength Model for Device-Free Localization with Wireless Networks; *TMC June 2012 947-958*
Wong, Albert Kai-Sun, *see* Ouyang, Robin Wentao, *TMC Nov. 2012 1613-1626*
Work, Daniel, *see* Hoh, Baik, *TMC May 2012 849-864*
Wright, Matthew, *see* Mehta, Kiran, *TMC Feb. 2012 320-336*
Wu, Kaishun, Tan, Haoyu, Liu, Yunhuai, Zhang, Jin, Zhang, Qian, and Ni, Lionel M., Side Channel: Bits over Interference; *TMC Aug. 2012 1317-1330*
Wu, Kaishun, Tan, Haoyu, Ngan, Hoi-Lun, Liu, Yunhuai, and Ni, Lionel M., Chip Error Pattern Analysis in IEEE 802.15.4; *TMC April 2012 543-552*
Wu, Kun-Lung, *see* Choi, Jae-Ho, *TMC Feb. 2012 278-291*
Wu, Po-Han, *see* Huang, Chih-Wei, *TMC March 2012 453-463*
Wu, Weili, *see* Ding, Ling, *TMC July 2012 1102-1112*

X

Xia, Ge, *see* Jenkins, Jonathan P., *TMC July 2012 1140-1150*
Xiang, Xiaojing, Wang, Xin, and Zhou, Zehua, Self-Adaptive On-Demand Geographic Routing for Mobile Ad Hoc Networks; *TMC Sept. 2012 1572-1586*
Xiao, Li, *see* Ding, Yong, *TMC Nov. 2012 1720-1733*
Xiao, Yang, Chen, Hui, Guizani, Mohsen, and Chen, Hsiao-Hwa, Optimal Pipeline Paging Load Balancing for Hierarchical Cellular Networks; *TMC Sept. 2012 1532-1544*
Xiao, Yang, Peng, Miao, Gibson, John, Xie, Geoffrey G., Du, Ding-Zhu, and Vasilakos, Athanasios V., Tight Performance Bounds of Multihop Fair Access for MAC Protocols in Wireless Sensor Networks and Underwater Sensor Networks; *TMC Oct. 2012 1538-1554*
Xie, Geoffrey G., *see* Xiao, Yang, *TMC Oct. 2012 1538-1554*
Xie, Jiang, *see* Song, Yi, *TMC July 2012 1127-1139*
Xie, Jiang, *see* Zhao, Weiyi, *TMC Oct. 2012 1585-1600*
Xing, Guoliang, *see* Peng, Shaoliang, *TMC Aug. 2012 1274-1286*
Xing, Guoliang, Li, Minming, Wang, Tian, Jia, Weijia, and Huang, Jun, Efficient Rendezvous Algorithms for Mobility-Enabled Wireless Sensor Networks; *TMC Jan. 2012 47-60*
Xu, Dan, Jung, Eric, and Liu, Xin, Efficient and Fair Bandwidth Allocation in Multichannel Cognitive Radio Networks; *TMC Aug. 2012 1372-1385*
Xu, Shugong, *see* Lee, Suk-Bok, *TMC Nov. 2012 1652-1665*
Xuan, Ying, Shen, Yilin, Nguyen, Nam P., and Thai, My T., A Trigger Identification Service for Defending Reactive Jammers in WSN; *TMC May 2012 793-806*
Xue, Guoliang, *see* Yang, Dejun, *TMC Aug. 2012 1399-1411*

Y

Yalaoui, Farouk, *see* Mourad, Farah, *TMC Aug. 2012 1261-1273*
Yan, Guanhua, *see* Pelechrinis, Konstantinos, *TMC July 2012 1086-1101*
Yang, Chang-Yi, *see* Chiu, Wei-Yu, *TMC June 2012 935-946*
Yang, De-Nian, *see* Shen, Chih-Ya, *TMC Oct. 2012 1478-1493*
Yang, Dejun, Misra, Satyajayant, Fang, Xi, Xue, Guoliang, and Zhang, Junshan, Two-Tiered Constrained Relay Node Placement in Wireless Sensor Networks: Computational Complexity and Efficient Approximations; *TMC Aug. 2012 1399-1411*
Yang, Jie, Sidhom, Simon, Chandrasekaran, Gayathri, Vu, Tam, Liu, Hongbo, Cecan, Nicolae, Chen, Yingying, Gruteser, Marco, and Martin, Richard P., Sensing Driver Phone Use with Acoustic Ranging through Car Speakers; *TMC Sept. 2012 1426-1440*
Yang, Ou, and Heinzelman, Wendi B., Modeling and Performance Analysis for Duty-Cycled MAC Protocols with Applications to S-MAC and X-MAC; *TMC June 2012 905-921*

+ Check author entry for coauthors

Yang, Shengbo, Yeo, Chai Kiat, and Lee, Bu-Sung, Toward Reliable Data Delivery for Highly Dynamic Mobile Ad Hoc Networks; *TMC Jan. 2012 111-124*
Yang, Yuanyuan, *see* Zhao, Miao, *TMC Oct. 2012 1464-1477*
Yang, Zheng, and Liu, Yunhao, Understanding Node Localizability of Wireless Ad Hoc and Sensor Networks; *TMC Aug. 2012 1249-1260*
Yao, Jun, Kanhere, Salil S., and Hassan, Mahbub, Improving QoS in High-Speed Mobility Using Bandwidth Maps; *TMC April 2012 603-617*
Yau, David K.Y., *see* He, Shibo, *TMC Nov. 2012 1678-1691*
Yeh, Ping-Cheng, *see* Meng, Ling-San, *TMC June 2012 896-904*
Yen, Li-Hsing, Law, Yee Wei, and Palaniswami, Marimuthu, Risk-Aware Distributed Beacon Scheduling for Tree-Based ZigBee Wireless Networks; *TMC April 2012 692-703*
Yeo, Chai Kiat, *see* Yang, Shengbo, *TMC Jan. 2012 111-124*
Yin, Sixing, Chen, Dawei, Zhang, Qian, Liu, Mingyan, and Li, Shufang, Mining Spectrum Usage Data: A Large-Scale Spectrum Measurement Study; *TMC June 2012 1033-1046*
Yu, Hui, *see* Wang, Xinbing, *TMC June 2012 970-982*
Yu, Kegen, *see* Sharp, Ian, *TMC June 2012 1021-1032*
Yu, Kegen, and Dutkiewicz, Eryk, Geometry and Motion-Based Positioning Algorithms for Mobile Tracking in NLOS Environments; *TMC Feb. 2012 254-263*
Yu, Kegen, and Dutkiewicz, Eryk, Correction to "Geometry and Motion-Based Positioning Algorithms for Mobile Tracking in NLOS Environments"; *TMC April 2012 704*
Yu, Wei, *see* Fu, Xinwen, *TMC March 2012 377-389*
Yu, Ya-Ju, Hsiu, Pi-Cheng, and Pang, Ai-Chun, Energy-Efficient Video Multicast in 4G Wireless Systems; *TMC Oct. 2012 1508-1522*
Yuan, Di, and Haugland, Dag, Dual Decomposition for Computational Optimization of Minimum-Power Shared Broadcast Tree in Wireless Networks; *TMC Dec. 2012 2008-2019*
Yuan, Dongfeng, *see* Liang, Quanquan, *TMC Aug. 2012 1304-1316*
Yue, Hao, *see* Pan, Miao, *TMC Dec. 2012 2133-2144*

Z

Zan, Bin, *see* Sun, Tingting, *TMC July 2012 1113-1126*
Zekavat, Seyed A. (Reza), *see* Wang, Zhonghai, *TMC Dec. 2012 2047-2059*
Zeng, Guokai, *see* Ding, Yong, *TMC Nov. 2012 1720-1733*
Zeng, Wei, *see* Wang, Bing, *TMC March 2012 439-452*
Zhang, Bing, *see* Kučera, Štěpán, *TMC Dec. 2012 2087-2097*
Zhang, Fenghui, *see* Jenkins, Jonathan P., *TMC July 2012 1140-1150*
Zhang, Haijun, Llorca, Jaime, Davis, Christopher C., and Milner, Stuart D., Nature-Inspired Self-Organization, Control, and Optimization in Heterogeneous Wireless Networks; *TMC July 2012 1207-1222*
Zhang, Huanshui, *see* Wang, Xingbo, *TMC April 2012 567-576*
Zhang, Jin, *see* Wu, Kaishun, *TMC Aug. 2012 1317-1330*
Zhang, Junshan, *see* Yang, Dejun, *TMC Aug. 2012 1399-1411*
Zhang, Nan, *see* Fu, Xinwen, *TMC March 2012 377-389*
Zhang, Qian, *see* Wu, Kaishun, *TMC Aug. 2012 1317-1330*
Zhang, Qian, *see* Yin, Sixing, *TMC June 2012 1033-1046*
Zhang, Qinqing, *see* Liu, Erwu, *TMC Feb. 2012 230-239*
Zhang, Tao, Wang, Dan, Cao, Jiannong, Ni, Yi Qing, Chen, Li-Jun, and Chen, Daoxu, Elevator-Assisted Sensor Data Collection for Structural Health Monitoring; *TMC Oct. 2012 1555-1568*
Zhang, Xinyu, and Shin, Kang G., E-MiLi: Energy-Minimizing Idle Listening in Wireless Networks; *TMC Sept. 2012 1441-1454*
Zhang, Xinyu, *see* Min, Alexander W., *TMC Dec. 2012 2020-2032*
Zhang, Yanyong, *see* Sun, Tingting, *TMC July 2012 1113-1126*
Zhang, Ying Jun (Angela), *see* Liu, Juan, *TMC Aug. 2012 1412-1423*
Zhang, Yuqun, *see* Feng, Chen-Hsiang, *TMC Feb. 2012 240-253*
Zhao, Miao, and Yang, Yuanyuan, Optimization-Based Distributed Algorithms for Mobile Data Gathering in Wireless Sensor Networks; *TMC Oct. 2012 1464-1477*
Zhao, Wei, *see* Fu, Xinwen, *TMC March 2012 377-389*
Zhao, Weiyi, and Xie, Jiang, IMeX: Intergateway Cross-Layer Handoffs in Internet-Based Infrastructure Wireless Mesh Networks; *TMC Oct. 2012 1585-1600*
Zhao, Yang, Patwari, Neal, Agrawal, Piyush, and Rabbat, Michael G., Directed by Directionality: Benefiting from the Gain Pattern of Active RFID Badges; *TMC May 2012 865-877*
Zheng, Haitao (Heather), *see* Mahonen, Petri, *TMC Feb. 2012 177*
Zheng, Rong, *see* Hua, Cunqing, *TMC March 2012 492-503*
Zheng, Yuanqing, and Li, Mo, PET: Probabilistic Estimating Tree for Large-Scale RFID Estimation; *TMC Nov. 2012 1763-1774*
Zhong, Lin, *see* Dong, Mian, *TMC May 2012 724-738*
Zhong, Lin, *see* Dong, Mian, *TMC Sept. 2012 1587-1599*
Zhou, Anfu, Liu, Min, Li, Zhongcheng, and Dutkiewicz, Eryk, Modeling and Optimization of Medium Access in CSMA Wireless Networks with Topology Asymmetry; *TMC Sept. 2012 1559-1571*
Zhou, Zehua, *see* Xiang, Xiaojing, *TMC Sept. 2012 1572-1586*
Zhou, Zhong, Peng, Zheng, Cui, Jun-Hong, and Jiang, Zaihan, Handling Triple Hidden Terminal Problems for Multichannel MAC in Long-Delay Underwater Sensor Networks; *TMC Jan. 2012 139-154*
Zhu, Wen Tao, A Comment on "MABS: Multicast Authentication Based on Batch Signature"; *TMC Nov. 2012 1775-1776*

SUBJECT INDEX

A

Access protocols
Chip Error Pattern Analysis in IEEE 802.15.4. *Wu, Kaishun, +, TMC April 2012 543-552*
Cross-Layer Optimization of Correlated Data Gathering in Wireless Sensor Networks. *He, Shibo, +, TMC Nov. 2012 1678-1691*
Design and Analysis of Transmission Strategies in Channel-Hopping Cognitive Radio Networks. *Lee, Chi-Mao, +, TMC Oct. 2012 1569-1584*
Design of Efficient Multicast Protocol for IEEE 802.11n WLANs and Cross-Layer Optimization for Scalable Video Streaming. *Lim, Wan-Seon, +, TMC May 2012 780-792*
Differentiated Protection of Video Layers to Improve Perceived Quality. *Kang, Kyungtae, +, TMC Feb. 2012 292-304*
Energy-Efficient Strategies for Cooperative Multichannel MAC Protocols. *Luo, Tie, +, TMC April 2012 553-566*
Error Resilient Estimation and Adaptive Binary Selection for Fast and Reliable Identification of RFID Tags in Error-Prone Channel. *Park, Jongho, +, TMC June 2012 959-969*
Handling Triple Hidden Terminal Problems for Multichannel MAC in Long-Delay Underwater Sensor Networks. *Zhou, Zhong, +, TMC Jan. 2012 139-154*
Link Positions Matter: A Noncommutative Routing Metric for Wireless Mesh Networks. *Jakllari, Gentian, +, TMC Jan. 2012 61-72*
MAC in Motion: Impact of Mobility on the MAC of Drive-Thru Internet. *Luan, Tom H., +, TMC Feb. 2012 305-319*
Modeling and Performance Analysis for Duty-Cycled MAC Protocols with Applications to S-MAC and X-MAC. *Yang, Ou, +, TMC June 2012 905-921*
Soft-TDMAC: A Software-Based 802.11 Overlay TDMA MAC with Microsecond Synchronization. *Djukic, Petar, +, TMC March 2012 478-491*
Tight Performance Bounds of Multihop Fair Access for MAC Protocols in Wireless Sensor Networks and Underwater Sensor Networks. *Xiao, Yang, +, TMC Oct. 2012 1538-1554*
Understanding the Interaction between Packet Forwarding and Channel Access in Multihop Wireless Networks. *Wang, Xin, +, TMC April 2012 679-691*
Accuracy
Fast Release/Capture Sampling in Large-Scale Sensor Networks. *Peng, Shaoliang, +, TMC Aug. 2012 1274-1286*
Position and Movement Detection of Wireless Sensor Network Devices Relative to a Landmark Graph. *Li, Keyong, +, TMC Dec. 2012 1970-1982*
Acoustics
Sensing Driver Phone Use with Acoustic Ranging through Car Speakers. *Yang, Jie, +, TMC Sept. 2012 1426-1440*
Ad hoc networks
A Novel MAC Scheme for Multichannel Cognitive Radio Ad Hoc Networks. *Jeon, Wha Sook, +, TMC June 2012 922-934*
A Statistical Mechanics-Based Framework to Analyze Ad Hoc Networks with Random Access. *Srinivasa, Sunil, +, TMC April 2012 618-630*
Adaptive In-Network Processing for Bandwidth and Energy Constrained Mission-Oriented Multihop Wireless Networks. *Eswaran, Sharanya, +, TMC Sept. 2012 1484-1498*
An Iterative Algorithm for Trust Management and Adversary Detection for Delay-Tolerant Networks. *Ayday, Erman, +, TMC Sept. 2012 1514-1531*

+ Check author entry for coauthors

Connectivity Analysis of One-Dimensional Ad Hoc Networks with Arbitrary Spatial Distribution for Variable and Fixed Number of Nodes. *Sharif-Nassab, Arsalan, +, TMC Oct. 2012 1425-1435*
Converge Cast: On the Capacity and Delay Tradeoffs. *Wang, Xinbing, +, TMC June 2012 970-982*
Energy-Efficient Strategies for Cooperative Multichannel MAC Protocols. *Luo, Tie, +, TMC April 2012 553-566*
Game-Theoretic Analysis of Cooperation Incentive Strategies in Mobile Ad Hoc Networks. *Li, Ze, +, TMC Aug. 2012 1287-1303*
Handling Selfishness in Replica Allocation over a Mobile Ad Hoc Network. *Choi, Jae-Ho, +, TMC Feb. 2012 278-291*
Leveraging the Algebraic Connectivity of a Cognitive Network for Routing Design. *Abbagnale, Anna, +, TMC July 2012 1163-1178*
Local Broadcast Algorithms in Wireless Ad Hoc Networks: Reducing the Number of Transmissions. *Khabbazian, Majid, +, TMC March 2012 402-413*
Multicast Capacity Scaling Laws for Multihop Cognitive Networks. *Wang, Cheng, +, TMC Nov. 2012 1627-1639*
Omnidirectional Mobile NLOS Identification and Localization via Multiple Cooperative Nodes. *Wang, Zhonghai, +, TMC Dec. 2012 2047-2059*
On the Throughput Capacity of Heterogeneous Wireless Networks. *Li, Pan, +, TMC Dec. 2012 2073-2086*
Optimal Hop Distance and Power Control for a Single Cell, Dense, Ad Hoc Wireless Network. *Ramaiyan, Venkatesh, +, TMC Nov. 2012 1601-1612*
ProSpect: A Proactive Spectrum Handoff Framework for Cognitive Radio Ad Hoc Networks without Common Control Channel. *Song, Yi, +, TMC July 2012 1127-1139*
Self-Adaptive On-Demand Geographic Routing for Mobile Ad Hoc Networks. *Xiang, Xiaojing, +, TMC Sept. 2012 1572-1586*
Stateless Multicast Protocol for Ad Hoc Networks. *Feng, Chen-Hsiang, +, TMC Feb. 2012 240-253*
Understanding Node Localizability of Wireless Ad Hoc and Sensor Networks. *Yang, Zheng, +, TMC Aug. 2012 1249-1260*

Adaptation models
CapEst: A Measurement-Based Approach to Estimating Link Capacity in Wireless Networks. *Jindal, Apoorva, +, TMC Dec. 2012 2098-2108*

Adaptive codes
Energy-Efficient Video Multicast in 4G Wireless Systems. *Yu, Ya-Ju, +, TMC Oct. 2012 1508-1522*

Adaptive modulation
Energy-Efficient Video Multicast in 4G Wireless Systems. *Yu, Ya-Ju, +, TMC Oct. 2012 1508-1522*
OMAN: A Mobile Ad Hoc Network Design System. *Fridman, Alex, +, TMC July 2012 1179-1191*

Amplify and forward communication
Network Coding in Cooperative Communications: Friend or Foe?. *Sharma, Sushant, +, TMC July 2012 1073-1085*

Analytical models
Modeling and Analysis for Spectrum Handoffs in Cognitive Radio Networks. *Wang, Li-Chun, +, TMC Sept. 2012 1499-1513*

Ant colony optimization
Controlled Mobility Sensor Networks for Target Tracking Using Ant Colony Optimization. *Mourad, Farah, +, TMC Aug. 2012 1261-1273*

Antenna arrays
Omnidirectional Mobile NLOS Identification and Localization via Multiple Cooperative Nodes. *Wang, Zhonghai, +, TMC Dec. 2012 2047-2059*

Antenna measurements
Omnidirectional Mobile NLOS Identification and Localization via Multiple Cooperative Nodes. *Wang, Zhonghai, +, TMC Dec. 2012 2047-2059*

Antenna radiation patterns
Directed by Directionality: Benefiting from the Gain Pattern of Active RFID Badges. *Zhao, Yang, +, TMC May 2012 865-877*

Approximation algorithms
Two-Tiered Constrained Relay Node Placement in Wireless Sensor Networks: Computational Complexity and Efficient Approximations. *Yang, Dejun, +, TMC Aug. 2012 1399-1411*

Approximation methods
Modeling and Optimization of Medium Access in CSMA Wireless Networks with Topology Asymmetry. *Zhou, Anfu, +, TMC Sept. 2012 1559-1571*
Sum Rate Increase via Variable Interference Protection. *Sinanović, Sinan, +, TMC Dec. 2012 2121-2132*
Two-Tiered Constrained Relay Node Placement in Wireless Sensor Networks: Computational Complexity and Efficient Approximations. *Yang, Dejun, +, TMC Aug. 2012 1399-1411*

Approximation theory
Approximation Algorithms for Data Broadcast in Wireless Networks. *Gandhi, Rajiv, +, TMC July 2012 1237-1248*
Collaborative and Distributed Search System with Mobile Devices. *Shen, Chih-Ya, +, TMC Oct. 2012 1478-1493*
Local Broadcast Algorithms in Wireless Ad Hoc Networks: Reducing the Number of Transmissions. *Khabbazian, Majid, +, TMC March 2012 402-413*
Local Greedy Approximation for Scheduling in Multihop Wireless Networks. *Joo, Changhee, +, TMC March 2012 414-426*

Array signal processing
Delay Optimal Scheduling for Cognitive Radios with Cooperative Beamforming: A Structured Matrix-Geometric Method. *Liu, Juan, +, TMC Aug. 2012 1412-1423*

Artificial intelligence
Nature-Inspired Self-Organization, Control, and Optimization in Heterogeneous Wireless Networks. *Zhang, Haijun, +, TMC July 2012 1207-1222*

Authoring systems
Moderated Group Authoring System for Campus-Wide Workgroups. *Chandra, Surendar, +, TMC June 2012 1007-1020*

Automated highways
Leveraging Smartphone Cameras for Collaborative Road Advisories. *Koukoumidis, Emmanouil, +, TMC May 2012 707-723*

Automatic repeat request
An MIMO Configuration Mode and MCS Level Selection Scheme by Fuzzy Q-Learning for HSPA$^+$ Systems. *Chung, Wen-Ching, +, TMC July 2012 1151-1162*

B

Bandwidth
Adaptive In-Network Processing for Bandwidth and Energy Constrained Mission-Oriented Multihop Wireless Networks. *Eswaran, Sharanya, +, TMC Sept. 2012 1484-1498*
Efficient and Fair Bandwidth Allocation in Multichannel Cognitive Radio Networks. *Xu, Dan, +, TMC Aug. 2012 1372-1385*
Measurement-Based Bandwidth Scavenging in Wireless Networks. *Plummer Jr., Anthony, +, TMC Jan. 2012 19-32*
On the Throughput Capacity of Heterogeneous Wireless Networks. *Li, Pan, +, TMC Dec. 2012 2073-2086*
STORM: A Framework for Integrated Routing, Scheduling, and Traffic Management in Ad Hoc Networks. *Garcia-Luna-Aceves, J.J., +, TMC Aug. 2012 1345-1357*

Base stations
On the Throughput Capacity of Heterogeneous Wireless Networks. *Li, Pan, +, TMC Dec. 2012 2073-2086*
Two-Tiered Constrained Relay Node Placement in Wireless Sensor Networks: Computational Complexity and Efficient Approximations. *Yang, Dejun, +, TMC Aug. 2012 1399-1411*

Battery charge measurement
Power Modeling and Optimization for OLED Displays. *Dong, Mian, +, TMC Sept. 2012 1587-1599*

Belief networks
Resource-Optimized Quality-Assured Ambiguous Context Mediation Framework in Pervasive Environments. *Roy, Nirmalya, +, TMC Feb. 2012 218-229*

Bluetooth
Sensing Driver Phone Use with Acoustic Ranging through Car Speakers. *Yang, Jie, +, TMC Sept. 2012 1426-1440*

Broadband networks
Heuristic Burst Construction Algorithm for Improving Downlink Capacity in IEEE 802.16 OFDMA Systems. *Baek, Joo-Young, +, TMC Jan. 2012 155-168*

Broadcasting
Approximation Algorithms for Data Broadcast in Wireless Networks. *Gandhi, Rajiv, +, TMC July 2012 1237-1248*
Dual Decomposition for Computational Optimization of Minimum-Power Shared Broadcast Tree in Wireless Networks. *Yuan, Di, +, TMC Dec. 2012 2008-2019*

Brownian motion
On the Cost of Knowledge of Mobility in Dynamic Networks: An Information-Theoretic Approach. *Wang, Di, +, TMC June 2012 995-1006*

C

Calibration
Indoor Location Estimation with Reduced Calibration Exploiting Unlabeled Data via Hybrid Generative/Discriminative Learning. *Ouyang, Robin Wentao, +, TMC Nov. 2012 1613-1626*
Cameras
Using Rotatable and Directional (R&D) Sensors to Achieve Temporal Coverage of Objects and Its Surveillance Application. *Wang, You-Chiun, +, TMC Aug. 2012 1358-1371*
Carrier sense multiple access
Measurement-Based Bandwidth Scavenging in Wireless Networks. *Plummer Jr., Anthony, +, TMC Jan. 2012 19-32*
Cellular networks
Optimal Pipeline Paging Load Balancing for Hierarchical Cellular Networks. *Xiao, Yang, +, TMC Sept. 2012 1532-1544*
Cellular phones
Sensing Driver Phone Use with Acoustic Ranging through Car Speakers. *Yang, Jie, +, TMC Sept. 2012 1426-1440*
Cellular radio
Characterizing the Security Implications of Third-Party Emergency Alert Systems over Cellular Text Messaging Services. *Traynor, Patrick, +, TMC June 2012 983-994*
FESCIM: Fair, Efficient, and Secure Cooperation Incentive Mechanism for Multihop Cellular Networks. *Mahmoud, Mohamed M.E.A., +, TMC May 2012 753-766*
Geometry and Motion-Based Positioning Algorithms for Mobile Tracking in NLOS Environments. *Yu, Kegen, +, TMC Feb. 2012 254-263*
Mobile Data Offloading through Opportunistic Communications and Social Participation. *Han, Bo, +, TMC May 2012 821-834*
Relay-Assisted Transmission with Fairness Constraint for Cellular Networks. *Liu, Erwu, +, TMC Feb. 2012 230-239*
Spectrum-Aware Mobility Management in Cognitive Radio Cellular Networks. *Lee, Won-Yeol, +, TMC April 2012 529-542*
Channel allocation
CapEst: A Measurement-Based Approach to Estimating Link Capacity in Wireless Networks. *Jindal, Apoorva, +, TMC Dec. 2012 2098-2108*
Cluster-Based Control Channel Allocation in Opportunistic Cognitive Radio Networks. *Liu, Sisi, +, TMC Oct. 2012 1436-1449*
Efficient and Fair Bandwidth Allocation in Multichannel Cognitive Radio Networks. *Xu, Dan, +, TMC Aug. 2012 1372-1385*
Efficient and Fair Bandwidth Allocation in Multichannel Cognitive Radio Networks. *Xu, Dan, +, TMC Aug. 2012 1372-1385*
Fast Data Collection in Tree-Based Wireless Sensor Networks. *Durmaz Incel, Ozlem, +, TMC Jan. 2012 86-99*
FLUID: Improving Throughputs in Enterprise Wireless LANs through Flexible Channelization. *Rayanchu, Shravan, +, TMC Sept. 2012 1455-1469*
Maximum Entropy Principle-Based Algorithm for Simultaneous Resource Location and Multihop Routing in Multiagent Networks. *Kale, Nachiket V., +, TMC April 2012 591-602*
STORM: A Framework for Integrated Routing, Scheduling, and Traffic Management in Ad Hoc Networks. *Garcia-Luna-Aceves, J.J., +, TMC Aug. 2012 1345-1357*
Thwarting Control-Channel Jamming Attacks from Inside Jammers. *Liu, Sisi, +, TMC Sept. 2012 1545-1558*
Using Partially Overlapping Channels to Improve Throughput in Wireless Mesh Networks. *Ding, Yong, +, TMC Nov. 2012 1720-1733*
Channel capacity
Side Channel: Bits over Interference. *Wu, Kaishun, +, TMC Aug. 2012 1317-1330*
Channel coding
Chip Error Pattern Analysis in IEEE 802.15.4. *Wu, Kaishun, +, TMC April 2012 543-552*
Channel estimation
Channel Estimation for Opportunistic Spectrum Access: Uniform and Random Sensing. *Liang, Quanquan, +, TMC Aug. 2012 1304-1316*
Efficient Distributed Algorithms for Dynamic Access to Shared Multiuser Channels in SINR-Constrained Wireless Networks. *Kučera, Štěpán, +, TMC Dec. 2012 2087-2097*
Fast Release/Capture Sampling in Large-Scale Sensor Networks. *Peng, Shaoliang, +, TMC Aug. 2012 1274-1286*
On the Vulnerabilities of CSI in MIMO Wireless Communication Systems. *Miller, Rob, +, TMC Aug. 2012 1386-1398*
Code division multiple access
Cluster-Based Control Channel Allocation in Opportunistic Cognitive Radio Networks. *Liu, Sisi, +, TMC Oct. 2012 1436-1449*
Cognitive radio
A Novel MAC Scheme for Multichannel Cognitive Radio Ad Hoc Networks. *Jeon, Wha Sook, +, TMC June 2012 922-934*
Admission and Eviction Control of Cognitive Radio Users at Wi-Fi 2.0 Hotspots. *Kim, Hyoil, +, TMC Nov. 2012 1666-1677*
Cluster-Based Control Channel Allocation in Opportunistic Cognitive Radio Networks. *Liu, Sisi, +, TMC Oct. 2012 1436-1449*
Delay Optimal Scheduling for Cognitive Radios with Cooperative Beamforming: A Structured Matrix-Geometric Method. *Liu, Juan, +, TMC Aug. 2012 1412-1423*
Design and Analysis of Transmission Strategies in Channel-Hopping Cognitive Radio Networks. *Lee, Chi-Mao, +, TMC Oct. 2012 1569-1584*
Efficient and Fair Bandwidth Allocation in Multichannel Cognitive Radio Networks. *Xu, Dan, +, TMC Aug. 2012 1372-1385*
Leveraging the Algebraic Connectivity of a Cognitive Network for Routing Design. *Abbagnale, Anna, +, TMC July 2012 1163-1178*
Measurement-Based Bandwidth Scavenging in Wireless Networks. *Plummer Jr., Anthony, +, TMC Jan. 2012 19-32*
Modeling and Analysis for Spectrum Handoffs in Cognitive Radio Networks. *Wang, Li-Chun, +, TMC Sept. 2012 1499-1513*
Multicast Capacity Scaling Laws for Multihop Cognitive Networks. *Wang, Cheng, +, TMC Nov. 2012 1627-1639*
ProSpect: A Proactive Spectrum Handoff Framework for Cognitive Radio Ad Hoc Networks without Common Control Channel. *Song, Yi, +, TMC July 2012 1127-1139*
Spectrum-Aware Mobility Management in Cognitive Radio Cellular Networks. *Lee, Won-Yeol, +, TMC April 2012 529-542*
The X Loss: Band-Mix Selection for Opportunistic Spectrum Accessing with Uncertain Spectrum Supply from Primary Service Providers. *Pan, Miao, +, TMC Dec. 2012 2133-2144*
Thwarting Control-Channel Jamming Attacks from Inside Jammers. *Liu, Sisi, +, TMC Sept. 2012 1545-1558*
Collaborative filtering
Leveraging Smartphone Cameras for Collaborative Road Advisories. *Koukoumidis, Emmanouil, +, TMC May 2012 707-723*
Color displays
Chameleon: A Color-Adaptive Web Browser for Mobile OLED Displays. *Dong, Mian, +, TMC May 2012 724-738*
Compressed sensing
Compressed-Sensing-Enabled Video Streaming for Wireless Multimedia Sensor Networks. *Pudlewski, Scott, +, TMC June 2012 1060-1072*
Received-Signal-Strength-Based Indoor Positioning Using Compressive Sensing. *Feng, Chen, +, TMC Dec. 2012 1983-1993*
Computational complexity
Approximation Algorithms for Data Broadcast in Wireless Networks. *Gandhi, Rajiv, +, TMC July 2012 1237-1248*
Collaborative and Distributed Search System with Mobile Devices. *Shen, Chih-Ya, +, TMC Oct. 2012 1478-1493*
Energy-Efficient Video Multicast in 4G Wireless Systems. *Yu, Ya-Ju, +, TMC Oct. 2012 1508-1522*
Exploiting Spatial, Frequency, and Multiuser Diversity in 3GPP LTE Cellular Networks. *Lee, Suk-Bok, +, TMC Nov. 2012 1652-1665*
Fault Localization Using Passive End-to-End Measurements and Sequential Testing for Wireless Sensor Networks. *Wang, Bing, +, TMC March 2012 439-452*
Local Broadcast Algorithms in Wireless Ad Hoc Networks: Reducing the Number of Transmissions. *Khabbazian, Majid, +, TMC March 2012 402-413*
Computational modeling
Adaptive In-Network Processing for Bandwidth and Energy Constrained Mission-Oriented Multihop Wireless Networks. *Eswaran, Sharanya, +, TMC Sept. 2012 1484-1498*
Dual Decomposition for Computational Optimization of Minimum-Power Shared Broadcast Tree in Wireless Networks. *Yuan, Di, +, TMC Dec. 2012 2008-2019*
Modeling and Analysis for Spectrum Handoffs in Cognitive Radio Networks. *Wang, Li-Chun, +, TMC Sept. 2012 1499-1513*

Modeling and Optimization of Medium Access in CSMA Wireless Networks with Topology Asymmetry. *Zhou, Anfu, +, TMC Sept. 2012 1559-1571*

Computer aided instruction
Moderated Group Authoring System for Campus-Wide Workgroups. *Chandra, Surendar, +, TMC June 2012 1007-1020*

Computer network management
Avoiding the Rush Hours: WiFi Energy Management via Traffic Isolation. *Manweiler, Justin, +, TMC May 2012 739-752*

Computer network reliability
Design of Efficient Multicast Protocol for IEEE 802.11n WLANs and Cross-Layer Optimization for Scalable Video Streaming. *Lim, Wan-Seon, +, TMC May 2012 780-792*

Computer network security
Characterizing the Security Implications of Third-Party Emergency Alert Systems over Cellular Text Messaging Services. *Traynor, Patrick, +, TMC June 2012 983-994*

Condition monitoring
Elevator-Assisted Sensor Data Collection for Structural Health Monitoring. *Zhang, Tao, +, TMC Oct. 2012 1555-1568*
Leveraging Smartphone Cameras for Collaborative Road Advisories. *Koukoumidis, Emmanouil, +, TMC May 2012 707-723*

Control engineering computing
Design and Analysis of the Gateway Relocation and Admission Control Algorithm in Mobile WiMAX Networks. *Liu, Zong-Hua, +, TMC Jan. 2012 5-18*

Control system synthesis
Jointly Optimal Source-Flow, Transmit-Power, and Sending-Rate Control for Maximum-Throughput Delivery of VBR Traffic over Faded Links. *Baccarelli, Enzo, +, TMC March 2012 390-401*

Convergence of numerical methods
Robust Topology Engineering in Multiradio Multichannel Wireless Networks. *Hua, Cunqing, +, TMC March 2012 492-503*

Convex programming
Cross-Layer Optimization of Correlated Data Gathering in Wireless Sensor Networks. *He, Shibo, +, TMC Nov. 2012 1678-1691*
Optimization-Based Distributed Algorithms for Mobile Data Gathering in Wireless Sensor Networks. *Zhao, Miao, +, TMC Oct. 2012 1464-1477*
Robust Relative Location Estimation in Wireless Sensor Networks with Inexact Position Problems. *Chiu, Wei-Yu, +, TMC June 2012 935-946*

Cooperative communication
Cooperative Download in Vehicular Environments. *Trullols-Cruces, Oscar, +, TMC April 2012 663-678*
Energy-Efficient Strategies for Cooperative Multichannel MAC Protocols. *Luo, Tie, +, TMC April 2012 553-566*
Network Coding in Cooperative Communications: Friend or Foe?. *Sharma, Sushant, +, TMC July 2012 1073-1085*
Relay-Assisted Transmission with Fairness Constraint for Cellular Networks. *Liu, Erwu, +, TMC Feb. 2012 230-239*

Cost-benefit analysis
A Cost Analysis Framework for NEMO Prefix Delegation-Based Schemes. *Shahriar, Abu Zafar M., +, TMC July 2012 1192-1206*

Cryptographic protocols
A Comment on "MABS: Multicast Authentication Based on Batch Signature”. *Zhu, Wen Tao, +, TMC Nov. 2012 1775-1776*
Secure Initialization of Multiple Constrained Wireless Devices for an Unaided User. *Perkovic, Toni, +, TMC Feb. 2012 337-351*

Current measurement
Power Modeling and Optimization for OLED Displays. *Dong, Mian, +, TMC Sept. 2012 1587-1599*

D

Data acquisition
Elevator-Assisted Sensor Data Collection for Structural Health Monitoring. *Zhang, Tao, +, TMC Oct. 2012 1555-1568*

Data communication
Elevator-Assisted Sensor Data Collection for Structural Health Monitoring. *Zhang, Tao, +, TMC Oct. 2012 1555-1568*

Data processing
Message Drop and Scheduling in DTNs: Theory and Practice. *Krifa, Amir, +, TMC Sept. 2012 1470-1483*

Database management systems
SenseLess: A Database-Driven White Spaces Network. *Murty, Rohan, +, TMC Feb. 2012 189-203*

Decision making
A Cost Analysis Framework for NEMO Prefix Delegation-Based Schemes. *Shahriar, Abu Zafar M., +, TMC July 2012 1192-1206*
Radio Resource Management of Composite Wireless Networks: Predictive and Reactive Approaches. *Ong, Eng Hwee, +, TMC May 2012 807-820*

Decode and forward communication
Network Coding in Cooperative Communications: Friend or Foe?. *Sharma, Sushant, +, TMC July 2012 1073-1085*

Decoding
Delay Optimal Scheduling for Cognitive Radios with Cooperative Beamforming: A Structured Matrix-Geometric Method. *Liu, Juan, +, TMC Aug. 2012 1412-1423*
Optimal Hop Distance and Power Control for a Single Cell, Dense, Ad Hoc Wireless Network. *Ramaiyan, Venkatesh, +, TMC Nov. 2012 1601-1612*

Delay
Converge Cast: On the Capacity and Delay Tradeoffs. *Wang, Xinbing, +, TMC June 2012 970-982*
Message Drop and Scheduling in DTNs: Theory and Practice. *Krifa, Amir, +, TMC Sept. 2012 1470-1483*
Optimal Pipeline Paging Load Balancing for Hierarchical Cellular Networks. *Xiao, Yang, +, TMC Sept. 2012 1532-1544*

Delay tolerant networks
Cooperative Download in Vehicular Environments. *Trullols-Cruces, Oscar, +, TMC April 2012 663-678*
The Boomerang Protocol: Tying Data to Geographic Locations in Mobile Disconnected Networks. *Sun, Tingting, +, TMC July 2012 1113-1126*

Differential equations
Relay-Assisted Transmission with Fairness Constraint for Cellular Networks. *Liu, Erwu, +, TMC Feb. 2012 230-239*

Digital signatures
A Comment on "MABS: Multicast Authentication Based on Batch Signature”. *Zhu, Wen Tao, +, TMC Nov. 2012 1775-1776*

Directed graphs
Energy-Efficient Cooperative Video Distribution with Statistical QoS Provisions over Wireless Networks. *Abdel Khalek, Amin, +, TMC July 2012 1223-1236*

Direction of arrival estimation
Omnidirectional Mobile NLOS Identification and Localization via Multiple Cooperative Nodes. *Wang, Zhonghai, +, TMC Dec. 2012 2047-2059*

Directive antennas
Directed by Directionality: Benefiting from the Gain Pattern of Active RFID Badges. *Zhao, Yang, +, TMC May 2012 865-877*
Efficient Virtual Backbone Construction with Routing Cost Constraint in Wireless Networks Using Directional Antennas. *Ding, Ling, +, TMC July 2012 1102-1112*

Distance measurement
Sensing Driver Phone Use with Acoustic Ranging through Car Speakers. *Yang, Jie, +, TMC Sept. 2012 1426-1440*
Target Tracking in Wireless Sensor Networks Based on the Combination of KF and MLE Using Distance Measurements. *Wang, Xingbo, +, TMC April 2012 567-576*

Distributed algorithms
Collaborative and Distributed Search System with Mobile Devices. *Shen, Chih-Ya, +, TMC Oct. 2012 1478-1493*
Cross-Layer Optimization of Correlated Data Gathering in Wireless Sensor Networks. *He, Shibo, +, TMC Nov. 2012 1678-1691*
Local Construction of Spanners in the 3D Space. *Jenkins, Jonathan P., +, TMC July 2012 1140-1150*
Optimization-Based Distributed Algorithms for Mobile Data Gathering in Wireless Sensor Networks. *Zhao, Miao, +, TMC Oct. 2012 1464-1477*

Distribution functions
Modeling and Performance Evaluation of Backoff Misbehaving Nodes in CSMA/CA Networks. *Lu, Zhuo, +, TMC Aug. 2012 1331-1344*

Diversity reception
Relay-Assisted Transmission with Fairness Constraint for Cellular Networks. *Liu, Erwu, +, TMC Feb. 2012 230-239*

Document handling
Moderated Group Authoring System for Campus-Wide Workgroups. *Chandra, Surendar, +, TMC June 2012 1007-1020*

Downlink
Handover Incentives for Self-Interested WLANs with Overlapping Coverage. *Fafoutis, Xenofon,* +, *TMC Dec. 2012 2033-2046*
Duality (mathematics)
Cross-Layer Optimization of Correlated Data Gathering in Wireless Sensor Networks. *He, Shibo,* +, *TMC Nov. 2012 1678-1691*

E

Eigenvalues and eigenfunctions
Efficient Distributed Algorithms for Dynamic Access to Shared Multiuser Channels in SINR-Constrained Wireless Networks. *Kučera, Štěpán,* +, *TMC Dec. 2012 2087-2097*
Leveraging the Algebraic Connectivity of a Cognitive Network for Routing Design. *Abbagnale, Anna,* +, *TMC July 2012 1163-1178*
On the Vulnerabilities of CSI in MIMO Wireless Communication Systems. *Miller, Rob,* +, *TMC Aug. 2012 1386-1398*
Structural Analysis of User Association Patterns in University Campus Wireless LANs. *Hsu, Wei-Jen,* +, *TMC Nov. 2012 1734-1748*
Electronic mail
Opportunistic Retransmission in WLANs. *Lu, Mei-Hsuan,* +, *TMC Dec. 2012 1953-1969*
Electronic messaging
Low Power Consumption Solutions for Mobile Instant Messaging. *Meng, Ling-San,* +, *TMC June 2012 896-904*
Emergency services
Collaborative and Distributed Search System with Mobile Devices. *Shen, Chih-Ya,* +, *TMC Oct. 2012 1478-1493*
Energy conservation
Energy-Efficient Strategies for Cooperative Multichannel MAC Protocols. *Luo, Tie,* +, *TMC April 2012 553-566*
Energy consumption
Avoiding the Rush Hours: WiFi Energy Management via Traffic Isolation. *Manweiler, Justin,* +, *TMC May 2012 739-752*
E-MiLi: Energy-Minimizing Idle Listening in Wireless Networks. *Zhang, Xinyu,* +, *TMC Sept. 2012 1441-1454*
Efficient Virtual Backbone Construction with Routing Cost Constraint in Wireless Networks Using Directional Antennas. *Ding, Ling,* +, *TMC July 2012 1102-1112*
Energy efficiency
Adaptive In-Network Processing for Bandwidth and Energy Constrained Mission-Oriented Multihop Wireless Networks. *Eswaran, Sharanya,* +, *TMC Sept. 2012 1484-1498*
E-MiLi: Energy-Minimizing Idle Listening in Wireless Networks. *Zhang, Xinyu,* +, *TMC Sept. 2012 1441-1454*
Environmental factors
Coverage Verification without Location Information. *Bejerano, Yigal,* +, *TMC April 2012 631-643*
Error analysis
Chip Error Pattern Analysis in IEEE 802.15.4. *Wu, Kaishun,* +, *TMC April 2012 543-552*
Distributed Fault-Tolerance for Event Detection Using Heterogeneous Wireless Sensor Networks. *Ould-Ahmed-Vall, ElMoustapha,* +, *TMC Dec. 2012 1994-2007*
Error correction
Compressed-Sensing-Enabled Video Streaming for Wireless Multimedia Sensor Networks. *Pudlewski, Scott,* +, *TMC June 2012 1060-1072*
Error detection codes
Secure Initialization of Multiple Constrained Wireless Devices for an Unaided User. *Perkovic, Toni,* +, *TMC Feb. 2012 337-351*
Error probability
Distributed Fault-Tolerance for Event Detection Using Heterogeneous Wireless Sensor Networks. *Ould-Ahmed-Vall, ElMoustapha,* +, *TMC Dec. 2012 1994-2007*
Error statistics
An MIMO Configuration Mode and MCS Level Selection Scheme by Fuzzy Q-Learning for HSPA$^+$ Systems. *Chung, Wen-Ching,* +, *TMC July 2012 1151-1162*
Positional Accuracy Measurement and Error Modeling for Mobile Tracking. *Sharp, Ian,* +, *TMC June 2012 1021-1032*
Estimation
Distributed Fault-Tolerance for Event Detection Using Heterogeneous Wireless Sensor Networks. *Ould-Ahmed-Vall, ElMoustapha,* +, *TMC Dec. 2012 1994-2007*
Indoor Location Estimation with Reduced Calibration Exploiting Unlabeled Data via Hybrid Generative/Discriminative Learning. *Ouyang, Robin Wentao,* +, *TMC Nov. 2012 1613-1626*
Event detection
Distributed Fault-Tolerance for Event Detection Using Heterogeneous Wireless Sensor Networks. *Ould-Ahmed-Vall, ElMoustapha,* +, *TMC Dec. 2012 1994-2007*
Extrapolation
Enhanced Fast Base Station Switching. *Chi, Kuang-Hui,* +, *TMC Nov. 2012 1640-1651*

F

Fading channels
Energy-Efficient Cooperative Video Distribution with Statistical QoS Provisions over Wireless Networks. *Abdel Khalek, Amin,* +, *TMC July 2012 1223-1236*
OLM: Opportunistic Layered Multicasting for Scalable IPTV over Mobile WiMAX. *Huang, Chih-Wei,* +, *TMC March 2012 453-463*
Optimal Hop Distance and Power Control for a Single Cell, Dense, Ad Hoc Wireless Network. *Ramaiyan, Venkatesh,* +, *TMC Nov. 2012 1601-1612*
Temporal Correlation of Interference in Wireless Networks with Rayleigh Block Fading. *Schilcher, Udo,* +, *TMC Dec. 2012 2109-2120*
Fault diagnosis
Fault Localization Using Passive End-to-End Measurements and Sequential Testing for Wireless Sensor Networks. *Wang, Bing,* +, *TMC March 2012 439-452*
Fault tolerance
An Iterative Algorithm for Trust Management and Adversary Detection for Delay-Tolerant Networks. *Ayday, Erman,* +, *TMC Sept. 2012 1514-1531*
Message Drop and Scheduling in DTNs: Theory and Practice. *Krifa, Amir,* +, *TMC Sept. 2012 1470-1483*
Fault tolerant systems
Distributed Fault-Tolerance for Event Detection Using Heterogeneous Wireless Sensor Networks. *Ould-Ahmed-Vall, ElMoustapha,* +, *TMC Dec. 2012 1994-2007*
Forward error correction
OLM: Opportunistic Layered Multicasting for Scalable IPTV over Mobile WiMAX. *Huang, Chih-Wei,* +, *TMC March 2012 453-463*
Frequency control
Thwarting Control-Channel Jamming Attacks from Inside Jammers. *Liu, Sisi,* +, *TMC Sept. 2012 1545-1558*
Frequency measurement
Exploiting Spectrum Heterogeneity in Dynamic Spectrum Market. *Min, Alexander W.,* +, *TMC Dec. 2012 2020-2032*
Fuzzy logic
An MIMO Configuration Mode and MCS Level Selection Scheme by Fuzzy Q-Learning for HSPA$^+$ Systems. *Chung, Wen-Ching,* +, *TMC July 2012 1151-1162*
Fuzzy systems
An MIMO Configuration Mode and MCS Level Selection Scheme by Fuzzy Q-Learning for HSPA$^+$ Systems. *Chung, Wen-Ching,* +, *TMC July 2012 1151-1162*

G

Game theory
Duopoly Competition in Dynamic Spectrum Leasing and Pricing. *Duan, Lingjie,* +, *TMC Nov. 2012 1706-1719*
Game-Theoretic Analysis of Cooperation Incentive Strategies in Mobile Ad Hoc Networks. *Li, Ze,* +, *TMC Aug. 2012 1287-1303*
Gaussian noise
Geometry and Motion-Based Positioning Algorithms for Mobile Tracking in NLOS Environments. *Yu, Kegen,* +, *TMC Feb. 2012 254-263*
Genetic algorithms
Using Partially Overlapping Channels to Improve Throughput in Wireless Mesh Networks. *Ding, Yong,* +, *TMC Nov. 2012 1720-1733*

Geographic information systems
Self-Adaptive On-Demand Geographic Routing for Mobile Ad Hoc Networks. *Xiang, Xiaojing, +, TMC Sept. 2012 1572-1586*
Geography
Toward Reliable Data Delivery for Highly Dynamic Mobile Ad Hoc Networks. *Yang, Shengbo, +, TMC Jan. 2012 111-124*
Geometry
Geometry and Motion-Based Positioning Algorithms for Mobile Tracking in NLOS Environments. *Yu, Kegen, +, TMC Feb. 2012 254-263*
Global communication
Fast Release/Capture Sampling in Large-Scale Sensor Networks. *Peng, Shaoliang, +, TMC Aug. 2012 1274-1286*
Global Positioning System
Enhancing Privacy and Accuracy in Probe Vehicle-Based Traffic Monitoring via Virtual Trip Lines. *Hoh, Baik, +, TMC May 2012 849-864*
Geometry and Motion-Based Positioning Algorithms for Mobile Tracking in NLOS Environments. *Yu, Kegen, +, TMC Feb. 2012 254-263*
The Digital Marauder's Map: A WiFi Forensic Positioning Tool. *Fu, Xinwen, +, TMC March 2012 377-389*
Graph theory
Cluster-Based Control Channel Allocation in Opportunistic Cognitive Radio Networks. *Liu, Sisi, +, TMC Oct. 2012 1436-1449*
Leveraging the Algebraic Connectivity of a Cognitive Network for Routing Design. *Abbagnale, Anna, +, TMC July 2012 1163-1178*
Local Construction of Spanners in the 3D Space. *Jenkins, Jonathan P., +, TMC July 2012 1140-1150*
Mobile Data Offloading through Opportunistic Communications and Social Participation. *Han, Bo, +, TMC May 2012 821-834*
Graphical user interfaces
Power Modeling and Optimization for OLED Displays. *Dong, Mian, +, TMC Sept. 2012 1587-1599*
Greedy algorithms
Link Positions Matter: A Noncommutative Routing Metric for Wireless Mesh Networks. *Jakllari, Gentian, +, TMC Jan. 2012 61-72*
Local Greedy Approximation for Scheduling in Multihop Wireless Networks. *Joo, Changhee, +, TMC March 2012 414-426*
Using Partially Overlapping Channels to Improve Throughput in Wireless Mesh Networks. *Ding, Yong, +, TMC Nov. 2012 1720-1733*
Groupware
Collaborative and Distributed Search System with Mobile Devices. *Shen, Chih-Ya, +, TMC Oct. 2012 1478-1493*
Moderated Group Authoring System for Campus-Wide Workgroups. *Chandra, Surendar, +, TMC June 2012 1007-1020*

H

Handover
Handover Incentives for Self-Interested WLANs with Overlapping Coverage. *Fafoutis, Xenofon, +, TMC Dec. 2012 2033-2046*

I

IEEE 802.11 Standards
E-MiLi: Energy-Minimizing Idle Listening in Wireless Networks. *Zhang, Xinyu, +, TMC Sept. 2012 1441-1454*
FLUID: Improving Throughputs in Enterprise Wireless LANs through Flexible Channelization. *Rayanchu, Shravan, +, TMC Sept. 2012 1455-1469*
Modeling and Performance Evaluation of Backoff Misbehaving Nodes in CSMA/CA Networks. *Lu, Zhuo, +, TMC Aug. 2012 1331-1344*
IEEE publishing
2011 Reviewers List. *TMC Jan. 2012 169-174*
IEEE standards
Heuristic Burst Construction Algorithm for Improving Downlink Capacity in IEEE 802.16 OFDMA Systems. *Baek, Joo-Young, +, TMC Jan. 2012 155-168*
Radio Resource Management of Composite Wireless Networks: Predictive and Reactive Approaches. *Ong, Eng Hwee, +, TMC May 2012 807-820*
Image color analysis
Power Modeling and Optimization for OLED Displays. *Dong, Mian, +, TMC Sept. 2012 1587-1599*
Image sensors
Distributed and Online Fair Resource Management in Video Surveillance Sensor Networks. *Durmus, Yunus, +, TMC May 2012 835-848*
Indoor communication
Principal Component Localization in Indoor WLAN Environments. *Fang, Shih-Hau, +, TMC Jan. 2012 100-110*
Indoor radio
Indoor Location Estimation with Reduced Calibration Exploiting Unlabeled Data via Hybrid Generative/Discriminative Learning. *Ouyang, Robin Wentao, +, TMC Nov. 2012 1613-1626*
MAC in Motion: Impact of Mobility on the MAC of Drive-Thru Internet. *Luan, Tom H., +, TMC Feb. 2012 305-319*
Positional Accuracy Measurement and Error Modeling for Mobile Tracking. *Sharp, Ian, +, TMC June 2012 1021-1032*
Inference mechanisms
Resource-Optimized Quality-Assured Ambiguous Context Mediation Framework in Pervasive Environments. *Roy, Nirmalya, +, TMC Feb. 2012 218-229*
Information analysis
Fast Release/Capture Sampling in Large-Scale Sensor Networks. *Peng, Shaoliang, +, TMC Aug. 2012 1274-1286*
Information dissemination
Characterizing the Security Implications of Third-Party Emergency Alert Systems over Cellular Text Messaging Services. *Traynor, Patrick, +, TMC June 2012 983-994*
Information theory
A Statistical Mechanics-Based Framework to Analyze Ad Hoc Networks with Random Access. *Srinivasa, Sunil, +, TMC April 2012 618-630*
Resource-Optimized Quality-Assured Ambiguous Context Mediation Framework in Pervasive Environments. *Roy, Nirmalya, +, TMC Feb. 2012 218-229*
Integer programming
Collaborative and Distributed Search System with Mobile Devices. *Shen, Chih-Ya, +, TMC Oct. 2012 1478-1493*
Intelligent vehicles
Correction to "Geometry and Motion-Based Positioning Algorithms for Mobile Tracking in NLOS Environments". *Yu, Kegen, +, TMC April 2012 704*
Interference
CapEst: A Measurement-Based Approach to Estimating Link Capacity in Wireless Networks. *Jindal, Apoorva, +, TMC Dec. 2012 2098-2108*
Delay Optimal Scheduling for Cognitive Radios with Cooperative Beamforming: A Structured Matrix-Geometric Method. *Liu, Juan, +, TMC Aug. 2012 1412-1423*
Efficient Distributed Algorithms for Dynamic Access to Shared Multiuser Channels in SINR-Constrained Wireless Networks. *Kučera, Štěpán, +, TMC Dec. 2012 2087-2097*
Exploiting Spectrum Heterogeneity in Dynamic Spectrum Market. *Min, Alexander W., +, TMC Dec. 2012 2020-2032*
FLUID: Improving Throughputs in Enterprise Wireless LANs through Flexible Channelization. *Rayanchu, Shravan, +, TMC Sept. 2012 1455-1469*
Side Channel: Bits over Interference. *Wu, Kaishun, +, TMC Aug. 2012 1317-1330*
Sum Rate Increase via Variable Interference Protection. *Sinanović, Sinan, +, TMC Dec. 2012 2121-2132*
Temporal Correlation of Interference in Wireless Networks with Rayleigh Block Fading. *Schilcher, Udo, +, TMC Dec. 2012 2109-2120*
Interference suppression
Hop-by-Hop Routing in Wireless Mesh Networks with Bandwidth Guarantees. *Hou, Ronghui, +, TMC Feb. 2012 264-277*
Internet
Admission and Eviction Control of Cognitive Radio Users at Wi-Fi 2.0 Hotspots. *Kim, Hyoil, +, TMC Nov. 2012 1666-1677*
Hop-by-Hop Routing in Wireless Mesh Networks with Bandwidth Guarantees. *Hou, Ronghui, +, TMC Feb. 2012 264-277*
IMeX: Intergateway Cross-Layer Handoffs in Internet-Based Infrastructure Wireless Mesh Networks. *Zhao, Weiyi, +, TMC Oct. 2012 1585-1600*
MAC in Motion: Impact of Mobility on the MAC of Drive-Thru Internet. *Luan, Tom H., +, TMC Feb. 2012 305-319*
Resource-Aware Video Multicasting via Access Gateways in Wireless Mesh Networks. *Tu, Wanqing, +, TMC June 2012 881-895*
Internetworking
Design and Analysis of the Gateway Relocation and Admission Control Algorithm in Mobile WiMAX Networks. *Liu, Zong-Hua, +, TMC Jan. 2012 5-18*

IMeX: Intergateway Cross-Layer Handoffs in Internet-Based Infrastructure Wireless Mesh Networks. *Zhao, Weiyi, +, TMC Oct. 2012 1585-1600*
Resource-Aware Video Multicasting via Access Gateways in Wireless Mesh Networks. *Tu, Wanqing, +, TMC June 2012 881-895*

Interpolation
Position and Movement Detection of Wireless Sensor Network Devices Relative to a Landmark Graph. *Li, Keyong, +, TMC Dec. 2012 1970-1982*

IP networks
Spectrum: Lightweight Hybrid Address Autoconfiguration Protocol Based on Virtual Coordinates for 6LoWPAN. *Shin, Hyojeong, +, TMC Nov. 2012 1749-1762*

IPTV
OLM: Opportunistic Layered Multicasting for Scalable IPTV over Mobile WiMAX. *Huang, Chih-Wei, +, TMC March 2012 453-463*

Iterative decoding
An Iterative Algorithm for Trust Management and Adversary Detection for Delay-Tolerant Networks. *Ayday, Erman, +, TMC Sept. 2012 1514-1531*
Efficient Distributed Algorithms for Dynamic Access to Shared Multiuser Channels in SINR-Constrained Wireless Networks. *Kučera, Štěpán, +, TMC Dec. 2012 2087-2097*

Iterative methods
An Iterative Algorithm for Trust Management and Adversary Detection for Delay-Tolerant Networks. *Ayday, Erman, +, TMC Sept. 2012 1514-1531*
Compressed-Sensing-Enabled Video Streaming for Wireless Multimedia Sensor Networks. *Pudlewski, Scott, +, TMC June 2012 1060-1072*
Jointly Optimal Source-Flow, Transmit-Power, and Sending-Rate Control for Maximum-Throughput Delivery of VBR Traffic over Faded Links. *Baccarelli, Enzo, +, TMC March 2012 390-401*
Robust Topology Engineering in Multiradio Multichannel Wireless Networks. *Hua, Cunqing, +, TMC March 2012 492-503*

J

Jamming
A Trigger Identification Service for Defending Reactive Jammers in WSN. *Xuan, Ying, +, TMC May 2012 793-806*
On the Vulnerabilities of CSI in MIMO Wireless Communication Systems. *Miller, Rob, +, TMC Aug. 2012 1386-1398*
Thwarting Control-Channel Jamming Attacks from Inside Jammers. *Liu, Sisi, +, TMC Sept. 2012 1545-1558*

K

Kalman filters
Directed by Directionality: Benefiting from the Gain Pattern of Active RFID Badges. *Zhao, Yang, +, TMC May 2012 865-877*
Target Tracking in Wireless Sensor Networks Based on the Combination of KF and MLE Using Distance Measurements. *Wang, Xingbo, +, TMC April 2012 567-576*

L

Laplace equations
Leveraging the Algebraic Connectivity of a Cognitive Network for Routing Design. *Abbagnale, Anna, +, TMC July 2012 1163-1178*

Learning (artificial intelligence)
Indoor Location Estimation with Reduced Calibration Exploiting Unlabeled Data via Hybrid Generative/Discriminative Learning. *Ouyang, Robin Wentao, +, TMC Nov. 2012 1613-1626*

Learning systems
An MIMO Configuration Mode and MCS Level Selection Scheme by Fuzzy Q-Learning for HSPA$^+$ Systems. *Chung, Wen-Ching, +, TMC July 2012 1151-1162*

LED displays
Chameleon: A Color-Adaptive Web Browser for Mobile OLED Displays. *Dong, Mian, +, TMC May 2012 724-738*

Linear programming
Admission and Eviction Control of Cognitive Radio Users at Wi-Fi 2.0 Hotspots. *Kim, Hyoil, +, TMC Nov. 2012 1666-1677*
Collaborative and Distributed Search System with Mobile Devices. *Shen, Chih-Ya, +, TMC Oct. 2012 1478-1493*

Liquid crystal displays
Chameleon: A Color-Adaptive Web Browser for Mobile OLED Displays. *Dong, Mian, +, TMC May 2012 724-738*

Load management
Optimal Pipeline Paging Load Balancing for Hierarchical Cellular Networks. *Xiao, Yang, +, TMC Sept. 2012 1532-1544*

Logic gates
A 6LoWPAN Sensor Node Mobility Scheme Based on Proxy Mobile IPv6. *Kim, Jinho, +, TMC Dec. 2012 2060-2072*

Long Term Evolution
Exploiting Spatial, Frequency, and Multiuser Diversity in 3GPP LTE Cellular Networks. *Lee, Suk-Bok, +, TMC Nov. 2012 1652-1665*

Loss measurement
The X Loss: Band-Mix Selection for Opportunistic Spectrum Accessing with Uncertain Spectrum Supply from Primary Service Providers. *Pan, Miao, +, TMC Dec. 2012 2133-2144*

Low-power electronics
Chameleon: A Color-Adaptive Web Browser for Mobile OLED Displays. *Dong, Mian, +, TMC May 2012 724-738*

M

Macrocell networks
Optimal Pipeline Paging Load Balancing for Hierarchical Cellular Networks. *Xiao, Yang, +, TMC Sept. 2012 1532-1544*

Markov processes
Admission and Eviction Control of Cognitive Radio Users at Wi-Fi 2.0 Hotspots. *Kim, Hyoil, +, TMC Nov. 2012 1666-1677*
Delay Optimal Scheduling for Cognitive Radios with Cooperative Beamforming: A Structured Matrix-Geometric Method. *Liu, Juan, +, TMC Aug. 2012 1412-1423*
Modeling and Analysis for Spectrum Handoffs in Cognitive Radio Networks. *Wang, Li-Chun, +, TMC Sept. 2012 1499-1513*
Modeling and Optimization of Medium Access in CSMA Wireless Networks with Topology Asymmetry. *Zhou, Anfu, +, TMC Sept. 2012 1559-1571*
Modeling and Performance Analysis for Duty-Cycled MAC Protocols with Applications to S-MAC and X-MAC. *Yang, Ou, +, TMC June 2012 905-921*
On the Cost of Knowledge of Mobility in Dynamic Networks: An Information-Theoretic Approach. *Wang, Di, +, TMC June 2012 995-1006*

Mathematical model
CapEst: A Measurement-Based Approach to Estimating Link Capacity in Wireless Networks. *Jindal, Apoorva, +, TMC Dec. 2012 2098-2108*
Dual Decomposition for Computational Optimization of Minimum-Power Shared Broadcast Tree in Wireless Networks. *Yuan, Di, +, TMC Dec. 2012 2008-2019*
Game-Theoretic Analysis of Cooperation Incentive Strategies in Mobile Ad Hoc Networks. *Li, Ze, +, TMC Aug. 2012 1287-1303*
Handover Incentives for Self-Interested WLANs with Overlapping Coverage. *Fafoutis, Xenofon, +, TMC Dec. 2012 2033-2046*

Mathematical programming
Dual Decomposition for Computational Optimization of Minimum-Power Shared Broadcast Tree in Wireless Networks. *Yuan, Di, +, TMC Dec. 2012 2008-2019*
Modeling and Optimization of Medium Access in CSMA Wireless Networks with Topology Asymmetry. *Zhou, Anfu, +, TMC Sept. 2012 1559-1571*
Robust Relative Location Estimation in Wireless Sensor Networks with Inexact Position Problems. *Chiu, Wei-Yu, +, TMC June 2012 935-946*

Mathematics computing
Modeling and Performance Analysis for Duty-Cycled MAC Protocols with Applications to S-MAC and X-MAC. *Yang, Ou, +, TMC June 2012 905-921*

Maximum entropy methods
Maximum Entropy Principle-Based Algorithm for Simultaneous Resource Location and Multihop Routing in Multiagent Networks. *Kale, Nachiket V., +, TMC April 2012 591-602*

Maximum likelihood estimation
Channel Estimation for Opportunistic Spectrum Access: Uniform and Random Sensing. *Liang, Quanquan, +, TMC Aug. 2012 1304-1316*
Robust Relative Location Estimation in Wireless Sensor Networks with Inexact Position Problems. *Chiu, Wei-Yu, +, TMC June 2012 935-946*

Target Tracking in Wireless Sensor Networks Based on the Combination of KF and MLE Using Distance Measurements. *Wang, Xingbo, +, TMC April 2012 567-576*

Mean square error methods

Directed by Directionality: Benefiting from the Gain Pattern of Active RFID Badges. *Zhao, Yang, +, TMC May 2012 865-877*

Meetings

Guest Editorial: Special Section on Outstanding Papers from DySPAN 2011. *Mahonen, Petri, +, TMC Feb. 2012 177*

Guest Editorial: Special Section on Outstanding Papers from MobiCom 2011. *Nandagopal, Thyaga, +, TMC Sept. 2012 1425*

Guest Editorial: Special Section on Outstanding Papers from MobiSys 2011. *Gruteser, Marco, +, TMC May 2012 705-706*

Mesh networks

CapEst: A Measurement-Based Approach to Estimating Link Capacity in Wireless Networks. *Jindal, Apoorva, +, TMC Dec. 2012 2098-2108*

Message authentication

Protecting Location Privacy in Sensor Networks against a Global Eavesdropper. *Mehta, Kiran, +, TMC Feb. 2012 320-336*

Microcell networks

Optimal Pipeline Paging Load Balancing for Hierarchical Cellular Networks. *Xiao, Yang, +, TMC Sept. 2012 1532-1544*

Microphones

Sensing Driver Phone Use with Acoustic Ranging through Car Speakers. *Yang, Jie, +, TMC Sept. 2012 1426-1440*

Middleware

Moderated Group Authoring System for Campus-Wide Workgroups. *Chandra, Surendar, +, TMC June 2012 1007-1020*

MIMO

On the Vulnerabilities of CSI in MIMO Wireless Communication Systems. *Miller, Rob, +, TMC Aug. 2012 1386-1398*

An MIMO Configuration Mode and MCS Level Selection Scheme by Fuzzy Q-Learning for HSPA$^+$ Systems. *Chung, Wen-Ching, +, TMC July 2012 1151-1162*

Exploiting Spatial, Frequency, and Multiuser Diversity in 3GPP LTE Cellular Networks. *Lee, Suk-Bok, +, TMC Nov. 2012 1652-1665*

Minimax techniques

Robust Relative Location Estimation in Wireless Sensor Networks with Inexact Position Problems. *Chiu, Wei-Yu, +, TMC June 2012 935-946*

Mobile ad hoc networks

Game-Theoretic Analysis of Cooperation Incentive Strategies in Mobile Ad Hoc Networks. *Li, Ze, +, TMC Aug. 2012 1287-1303*

Mobile Ad Hoc Nanonetworks with Collision-Based Molecular Communication. *Guney, Aydin, +, TMC March 2012 353-366*

OMAN: A Mobile Ad Hoc Network Design System. *Fridman, Alex, +, TMC July 2012 1179-1191*

On the Cost of Knowledge of Mobility in Dynamic Networks: An Information-Theoretic Approach. *Wang, Di, +, TMC June 2012 995-1006*

Smooth Trade-Offs between Throughput and Delay in Mobile Ad Hoc Networks. *Li, Pan, +, TMC March 2012 427-438*

Stochastic Vector Mobility Model for Mobile and Vehicular Ad Hoc Network Simulation. *Chung, Jong-Moon, +, TMC Oct. 2012 1494-1507*

Toward Reliable Data Delivery for Highly Dynamic Mobile Ad Hoc Networks. *Yang, Shengbo, +, TMC Jan. 2012 111-124*

Mobile antennas

The Digital Marauder's Map: A WiFi Forensic Positioning Tool. *Fu, Xinwen, +, TMC March 2012 377-389*

Mobile communication

A 6LoWPAN Sensor Node Mobility Scheme Based on Proxy Mobile IPv6. *Kim, Jinho, +, TMC Dec. 2012 2060-2072*

Guest Editorial: Special Section on Outstanding Papers from MobiCom 2011. *Nandagopal, Thyaga, +, TMC Sept. 2012 1425*

Guest Editorial: Special Section on Outstanding Papers from MobiSys 2011. *Gruteser, Marco, +, TMC May 2012 705-706*

Handling Selfishness in Replica Allocation over a Mobile Ad Hoc Network. *Choi, Jae-Ho, +, TMC Feb. 2012 278-291*

Received-Signal-Strength-Based Indoor Positioning Using Compressive Sensing. *Feng, Chen, +, TMC Dec. 2012 1983-1993*

Mobile computing

An Iterative Algorithm for Trust Management and Adversary Detection for Delay-Tolerant Networks. *Ayday, Erman, +, TMC Sept. 2012 1514-1531*

Chameleon: A Color-Adaptive Web Browser for Mobile OLED Displays. *Dong, Mian, +, TMC May 2012 724-738*

Characterizing the Security Implications of Third-Party Emergency Alert Systems over Cellular Text Messaging Services. *Traynor, Patrick, +, TMC June 2012 983-994*

Collaborative and Distributed Search System with Mobile Devices. *Shen, Chih-Ya, +, TMC Oct. 2012 1478-1493*

Design and Analysis of the Gateway Relocation and Admission Control Algorithm in Mobile WiMAX Networks. *Liu, Zong-Hua, +, TMC Jan. 2012 5-18*

Leveraging Smartphone Cameras for Collaborative Road Advisories. *Koukoumidis, Emmanouil, +, TMC May 2012 707-723*

Modeling and Analysis for Spectrum Handoffs in Cognitive Radio Networks. *Wang, Li-Chun, +, TMC Sept. 2012 1499-1513*

Optimal Pipeline Paging Load Balancing for Hierarchical Cellular Networks. *Xiao, Yang, +, TMC Sept. 2012 1532-1544*

Self-Adaptive On-Demand Geographic Routing for Mobile Ad Hoc Networks. *Xiang, Xiaojing, +, TMC Sept. 2012 1572-1586*

Structural Analysis of User Association Patterns in University Campus Wireless LANs. *Hsu, Wei-Jen, +, TMC Nov. 2012 1734-1748*

The X Loss: Band-Mix Selection for Opportunistic Spectrum Accessing with Uncertain Spectrum Supply from Primary Service Providers. *Pan, Miao, +, TMC Dec. 2012 2133-2144*

Mobile handsets

Avoiding the Rush Hours: WiFi Energy Management via Traffic Isolation. *Manweiler, Justin, +, TMC May 2012 739-752*

Chameleon: A Color-Adaptive Web Browser for Mobile OLED Displays. *Dong, Mian, +, TMC May 2012 724-738*

Low Power Consumption Solutions for Mobile Instant Messaging. *Meng, Ling-San, +, TMC June 2012 896-904*

Received-Signal-Strength-Based Indoor Positioning Using Compressive Sensing. *Feng, Chen, +, TMC Dec. 2012 1983-1993*

Mobile radio

Cooperative Download in Vehicular Environments. *Trullols-Cruces, Oscar, +, TMC April 2012 663-678*

Efficient Rendezvous Algorithms for Mobility-Enabled Wireless Sensor Networks. *Xing, Guoliang, +, TMC Jan. 2012 47-60*

OLM: Opportunistic Layered Multicasting for Scalable IPTV over Mobile WiMAX. *Huang, Chih-Wei, +, TMC March 2012 453-463*

Positional Accuracy Measurement and Error Modeling for Mobile Tracking. *Sharp, Ian, +, TMC June 2012 1021-1032*

RAM: Rate Adaptation in Mobile Environments. *Chen, Xi, +, TMC March 2012 464-477*

Structural Analysis of User Association Patterns in University Campus Wireless LANs. *Hsu, Wei-Jen, +, TMC Nov. 2012 1734-1748*

The Boomerang Protocol: Tying Data to Geographic Locations in Mobile Disconnected Networks. *Sun, Tingting, +, TMC July 2012 1113-1126*

The Digital Marauder's Map: A WiFi Forensic Positioning Tool. *Fu, Xinwen, +, TMC March 2012 377-389*

Who, When, Where: Timeslot Assignment to Mobile Clients. *Chen, Fangfei, +, TMC Jan. 2012 73-85*

Mobile radio mobility management

A 6LoWPAN Sensor Node Mobility Scheme Based on Proxy Mobile IPv6. *Kim, Jinho, +, TMC Dec. 2012 2060-2072*

Controlled Mobility Sensor Networks for Target Tracking Using Ant Colony Optimization. *Mourad, Farah, +, TMC Aug. 2012 1261-1273*

Modeling and Analysis for Spectrum Handoffs in Cognitive Radio Networks. *Wang, Li-Chun, +, TMC Sept. 2012 1499-1513*

Omnidirectional Mobile NLOS Identification and Localization via Multiple Cooperative Nodes. *Wang, Zhonghai, +, TMC Dec. 2012 2047-2059*

Received-Signal-Strength-Based Indoor Positioning Using Compressive Sensing. *Feng, Chen, +, TMC Dec. 2012 1983-1993*

Understanding Node Localizability of Wireless Ad Hoc and Sensor Networks. *Yang, Zheng, +, TMC Aug. 2012 1249-1260*

Mobility management (mobile radio)

A Cost Analysis Framework for NEMO Prefix Delegation-Based Schemes. *Shahriar, Abu Zafar M., +, TMC July 2012 1192-1206*

Coverage Verification without Location Information. *Bejerano, Yigal, +, TMC April 2012 631-643*

Design and Analysis of the Gateway Relocation and Admission Control Algorithm in Mobile WiMAX Networks. *Liu, Zong-Hua, +, TMC Jan. 2012 5-18*

Enhanced Fast Base Station Switching. *Chi, Kuang-Hui, +, TMC Nov. 2012 1640-1651*

IMeX: Intergateway Cross-Layer Handoffs in Internet-Based Infrastructure Wireless Mesh Networks. *Zhao, Weiyi, +, TMC Oct. 2012 1585-1600*

Improving QoS in High-Speed Mobility Using Bandwidth Maps. *Yao, Jun, +, TMC April 2012 603-617*
MAC in Motion: Impact of Mobility on the MAC of Drive-Thru Internet. *Luan, Tom H., +, TMC Feb. 2012 305-319*
Maximum Entropy Principle-Based Algorithm for Simultaneous Resource Location and Multihop Routing in Multiagent Networks. *Kale, Nachiket V., +, TMC April 2012 591-602*
Network Connectivity with a Family of Group Mobility Models. *La, Richard J., +, TMC March 2012 504-517*
On the Cost of Knowledge of Mobility in Dynamic Networks: An Information-Theoretic Approach. *Wang, Di, +, TMC June 2012 995-1006*
On the Origins of Heavy-Tailed Delay in Dynamic Spectrum Access Networks. *Wang, Pu, +, TMC Feb. 2012 204-217*
Smooth Trade-Offs between Throughput and Delay in Mobile Ad Hoc Networks. *Li, Pan, +, TMC March 2012 427-438*
Spectrum-Aware Mobility Management in Cognitive Radio Cellular Networks. *Lee, Won-Yeol, +, TMC April 2012 529-542*

Modulation coding
Design of Efficient Multicast Protocol for IEEE 802.11n WLANs and Cross-Layer Optimization for Scalable Video Streaming. *Lim, Wan-Seon, +, TMC May 2012 780-792*
OLM: Opportunistic Layered Multicasting for Scalable IPTV over Mobile WiMAX. *Huang, Chih-Wei, +, TMC March 2012 453-463*

Monitoring
Fast Release/Capture Sampling in Large-Scale Sensor Networks. *Peng, Shaoliang, +, TMC Aug. 2012 1274-1286*

Motion control
Correction to "Geometry and Motion-Based Positioning Algorithms for Mobile Tracking in NLOS Environments". *Yu, Kegen, +, TMC April 2012 704*

Multi-access systems
A Novel MAC Scheme for Multichannel Cognitive Radio Ad Hoc Networks. *Jeon, Wha Sook, +, TMC June 2012 922-934*

Multi-agent systems
Maximum Entropy Principle-Based Algorithm for Simultaneous Resource Location and Multihop Routing in Multiagent Networks. *Kale, Nachiket V., +, TMC April 2012 591-602*

Multiaccess communication
Modeling and Performance Evaluation of Backoff Misbehaving Nodes in CSMA/CA Networks. *Lu, Zhuo, +, TMC Aug. 2012 1331-1344*
Side Channel: Bits over Interference. *Wu, Kaishun, +, TMC Aug. 2012 1317-1330*

Multicast communication
Energy-Efficient Cooperative Video Distribution with Statistical QoS Provisions over Wireless Networks. *Abdel Khalek, Amin, +, TMC July 2012 1223-1236*
Multicast Capacity Scaling Laws for Multihop Cognitive Networks. *Wang, Cheng, +, TMC Nov. 2012 1627-1639*
OLM: Opportunistic Layered Multicasting for Scalable IPTV over Mobile WiMAX. *Huang, Chih-Wei, +, TMC March 2012 453-463*
Resource-Aware Video Multicasting via Access Gateways in Wireless Mesh Networks. *Tu, Wanqing, +, TMC June 2012 881-895*
Using Partially Overlapping Channels to Improve Throughput in Wireless Mesh Networks. *Ding, Yong, +, TMC Nov. 2012 1720-1733*

Multicast protocols
A Comment on "MABS: Multicast Authentication Based on Batch Signature”. *Zhu, Wen Tao, +, TMC Nov. 2012 1775-1776*
Design of Efficient Multicast Protocol for IEEE 802.11n WLANs and Cross-Layer Optimization for Scalable Video Streaming. *Lim, Wan-Seon, +, TMC May 2012 780-792*
Stateless Multicast Protocol for Ad Hoc Networks. *Feng, Chen-Hsiang, +, TMC Feb. 2012 240-253*

Multimedia communication
Compressed-Sensing-Enabled Video Streaming for Wireless Multimedia Sensor Networks. *Pudlewski, Scott, +, TMC June 2012 1060-1072*
Low Power Consumption Solutions for Mobile Instant Messaging. *Meng, Ling-San, +, TMC June 2012 896-904*

N

Nanofabrication
Mobile Ad Hoc Nanonetworks with Collision-Based Molecular Communication. *Guney, Aydin, +, TMC March 2012 353-366*

Network coding
Network Coding in Cooperative Communications: Friend or Foe?. *Sharma, Sushant, +, TMC July 2012 1073-1085*

Network interfaces
Cooperative Download in Vehicular Environments. *Trullols-Cruces, Oscar, +, TMC April 2012 663-678*

Network security
An Iterative Algorithm for Trust Management and Adversary Detection for Delay-Tolerant Networks. *Ayday, Erman, +, TMC Sept. 2012 1514-1531*

Network servers
Design and Analysis of the Gateway Relocation and Admission Control Algorithm in Mobile WiMAX Networks. *Liu, Zong-Hua, +, TMC Jan. 2012 5-18*

Network theory (graphs)
Local Construction of Spanners in the 3D Space. *Jenkins, Jonathan P., +, TMC July 2012 1140-1150*

Network topology
Modeling and Optimization of Medium Access in CSMA Wireless Networks with Topology Asymmetry. *Zhou, Anfu, +, TMC Sept. 2012 1559-1571*
Self-Adaptive On-Demand Geographic Routing for Mobile Ad Hoc Networks. *Xiang, Xiaojing, +, TMC Sept. 2012 1572-1586*

Next generation networks
Nature-Inspired Self-Organization, Control, and Optimization in Heterogeneous Wireless Networks. *Zhang, Haijun, +, TMC July 2012 1207-1222*

Noise measurement
Network Coding in Cooperative Communications: Friend or Foe?. *Sharma, Sushant, +, TMC July 2012 1073-1085*
On the Vulnerabilities of CSI in MIMO Wireless Communication Systems. *Miller, Rob, +, TMC Aug. 2012 1386-1398*
Sensing Driver Phone Use with Acoustic Ranging through Car Speakers. *Yang, Jie, +, TMC Sept. 2012 1426-1440*

Nonlinear filters
Directed by Directionality: Benefiting from the Gain Pattern of Active RFID Badges. *Zhao, Yang, +, TMC May 2012 865-877*

Numerical analysis
Distributed Throughput Maximization in Wireless Networks via Random Power Allocation. *Lee, Hyang-Won, +, TMC April 2012 577-590*
Mobile Ad Hoc Nanonetworks with Collision-Based Molecular Communication. *Guney, Aydin, +, TMC March 2012 353-366*
Robust Relative Location Estimation in Wireless Sensor Networks with Inexact Position Problems. *Chiu, Wei-Yu, +, TMC June 2012 935-946*

O

Object tracking
A Fade-Level Skew-Laplace Signal Strength Model for Device-Free Localization with Wireless Networks. *Wilson, Joey, +, TMC June 2012 947-958*
Directed by Directionality: Benefiting from the Gain Pattern of Active RFID Badges. *Zhao, Yang, +, TMC May 2012 865-877*
Positional Accuracy Measurement and Error Modeling for Mobile Tracking. *Sharp, Ian, +, TMC June 2012 1021-1032*

OFDM modulation
Heuristic Burst Construction Algorithm for Improving Downlink Capacity in IEEE 802.16 OFDMA Systems. *Baek, Joo-Young, +, TMC Jan. 2012 155-168*
WiMAX/OFDMA Burst Scheduling Algorithm to Maximize Scheduled Data. *Nusairat, Ashraf, +, TMC Nov. 2012 1692-1705*

Oligopoly
Duopoly Competition in Dynamic Spectrum Leasing and Pricing. *Duan, Lingjie, +, TMC Nov. 2012 1706-1719*

Online front-ends
Chameleon: A Color-Adaptive Web Browser for Mobile OLED Displays. *Dong, Mian, +, TMC May 2012 724-738*

Optimal control
Jointly Optimal Source-Flow, Transmit-Power, and Sending-Rate Control for Maximum-Throughput Delivery of VBR Traffic over Faded Links. *Baccarelli, Enzo, +, TMC March 2012 390-401*

Optimal scheduling
Delay Optimal Scheduling for Cognitive Radios with Cooperative Beamforming: A Structured Matrix-Geometric Method. *Liu, Juan, +, TMC Aug. 2012 1412-1423*

Optimization
A Cost Analysis Framework for NEMO Prefix Delegation-Based Schemes. *Shahriar, Abu Zafar M., +, TMC July 2012 1192-1206*
A Trigger Identification Service for Defending Reactive Jammers in WSN. *Xuan, Ying, +, TMC May 2012 793-806*
Adaptive In-Network Processing for Bandwidth and Energy Constrained Mission-Oriented Multihop Wireless Networks. *Eswaran, Sharanya, +, TMC Sept. 2012 1484-1498*
Dual Decomposition for Computational Optimization of Minimum-Power Shared Broadcast Tree in Wireless Networks. *Yuan, Di, +, TMC Dec. 2012 2008-2019*
Distributed Throughput Maximization in Wireless Networks via Random Power Allocation. *Lee, Hyang-Won, +, TMC April 2012 577-590*
Elevator-Assisted Sensor Data Collection for Structural Health Monitoring. *Zhang, Tao, +, TMC Oct. 2012 1555-1568*
Fast Capture—Recapture Approach for Mitigating the Problem of Missing RFID Tags. *Fyhn, Karsten, +, TMC March 2012 518-528*
Fault Localization Using Passive End-to-End Measurements and Sequential Testing for Wireless Sensor Networks. *Wang, Bing, +, TMC March 2012 439-452*
Geometry and Motion-Based Positioning Algorithms for Mobile Tracking in NLOS Environments. *Yu, Kegen, +, TMC Feb. 2012 254-263*
Local Broadcast Algorithms in Wireless Ad Hoc Networks: Reducing the Number of Transmissions. *Khabbazian, Majid, +, TMC March 2012 402-413*
Maximum Entropy Principle-Based Algorithm for Simultaneous Resource Location and Multihop Routing in Multiagent Networks. *Kale, Nachiket V., +, TMC April 2012 591-602*
OLM: Opportunistic Layered Multicasting for Scalable IPTV over Mobile WiMAX. *Huang, Chih-Wei, +, TMC March 2012 453-463*
Radio Resource Management of Composite Wireless Networks: Predictive and Reactive Approaches. *Ong, Eng Hwee, +, TMC May 2012 807-820*
Robust Topology Engineering in Multiradio Multichannel Wireless Networks. *Hua, Cunqing, +, TMC March 2012 492-503*
Organic light emitting diodes
Chameleon: A Color-Adaptive Web Browser for Mobile OLED Displays. *Dong, Mian, +, TMC May 2012 724-738*
Power Modeling and Optimization for OLED Displays. *Dong, Mian, +, TMC Sept. 2012 1587-1599*

P

Packet radio networks
FESCIM: Fair, Efficient, and Secure Cooperation Incentive Mechanism for Multihop Cellular Networks. *Mahmoud, Mohamed M.E.A., +, TMC May 2012 753-766*
Paging strategies
Optimal Pipeline Paging Load Balancing for Hierarchical Cellular Networks. *Xiao, Yang, +, TMC Sept. 2012 1532-1544*
Parameter estimation
Directed by Directionality: Benefiting from the Gain Pattern of Active RFID Badges. *Zhao, Yang, +, TMC May 2012 865-877*
Particle filtering (numerical methods)
A Fade-Level Skew-Laplace Signal Strength Model for Device-Free Localization with Wireless Networks. *Wilson, Joey, +, TMC June 2012 947-958*
Particle swarm optimization
Nature-Inspired Self-Organization, Control, and Optimization in Heterogeneous Wireless Networks. *Zhang, Haijun, +, TMC July 2012 1207-1222*
Pattern classification
Risk-Aware Distributed Beacon Scheduling for Tree-Based ZigBee Wireless Networks. *Yen, Li-Hsing, +, TMC April 2012 692-703*
Peer to peer computing
An Iterative Algorithm for Trust Management and Adversary Detection for Delay-Tolerant Networks. *Ayday, Erman, +, TMC Sept. 2012 1514-1531*
Cooperative Download in Vehicular Environments. *Trullols-Cruces, Oscar, +, TMC April 2012 663-678*
Game-Theoretic Analysis of Cooperation Incentive Strategies in Mobile Ad Hoc Networks. *Li, Ze, +, TMC Aug. 2012 1287-1303*
On the Throughput Capacity of Heterogeneous Wireless Networks. *Li, Pan, +, TMC Dec. 2012 2073-2086*
Performance evaluation
Using Partially Overlapping Channels to Improve Throughput in Wireless Mesh Networks. *Ding, Yong, +, TMC Nov. 2012 1720-1733*
Personal area networks
Spectrum: Lightweight Hybrid Address Autoconfiguration Protocol Based on Virtual Coordinates for 6LoWPAN. *Shin, Hyojeong, +, TMC Nov. 2012 1749-1762*
Position measurement
Position and Movement Detection of Wireless Sensor Network Devices Relative to a Landmark Graph. *Li, Keyong, +, TMC Dec. 2012 1970-1982*
Positional Accuracy Measurement and Error Modeling for Mobile Tracking. *Sharp, Ian, +, TMC June 2012 1021-1032*
Power control
Efficient Distributed Algorithms for Dynamic Access to Shared Multiuser Channels in SINR-Constrained Wireless Networks. *Kučera, Štěpán, +, TMC Dec. 2012 2087-2097*
Fast Data Collection in Tree-Based Wireless Sensor Networks. *Durmaz Incel, Ozlem, +, TMC Jan. 2012 86-99*
Jointly Optimal Source-Flow, Transmit-Power, and Sending-Rate Control for Maximum-Throughput Delivery of VBR Traffic over Faded Links. *Baccarelli, Enzo, +, TMC March 2012 390-401*
Robust Topology Engineering in Multiradio Multichannel Wireless Networks. *Hua, Cunqing, +, TMC March 2012 492-503*
Power demand
E-MiLi: Energy-Minimizing Idle Listening in Wireless Networks. *Zhang, Xinyu, +, TMC Sept. 2012 1441-1454*
Power Modeling and Optimization for OLED Displays. *Dong, Mian, +, TMC Sept. 2012 1587-1599*
Power measurement
Power Modeling and Optimization for OLED Displays. *Dong, Mian, +, TMC Sept. 2012 1587-1599*
Pricing
Duopoly Competition in Dynamic Spectrum Leasing and Pricing. *Duan, Lingjie, +, TMC Nov. 2012 1706-1719*
Exploiting Spectrum Heterogeneity in Dynamic Spectrum Market. *Min, Alexander W., +, TMC Dec. 2012 2020-2032*
Probabilistic logic
Position and Movement Detection of Wireless Sensor Network Devices Relative to a Landmark Graph. *Li, Keyong, +, TMC Dec. 2012 1970-1982*
Probability
Admission and Eviction Control of Cognitive Radio Users at Wi-Fi 2.0 Hotspots. *Kim, Hyoil, +, TMC Nov. 2012 1666-1677*
Cross-Layer Optimization of Correlated Data Gathering in Wireless Sensor Networks. *He, Shibo, +, TMC Nov. 2012 1678-1691*
PET: Probabilistic Estimating Tree for Large-Scale RFID Estimation. *Zheng, Yuanqing, +, TMC Nov. 2012 1763-1774*
Robust Topology Engineering in Multiradio Multichannel Wireless Networks. *Hua, Cunqing, +, TMC March 2012 492-503*
Protocols
A 6LoWPAN Sensor Node Mobility Scheme Based on Proxy Mobile IPv6. *Kim, Jinho, +, TMC Dec. 2012 2060-2072*
Acknowledgment-Based Broadcast Protocol for Reliable and Efficient Data Dissemination in Vehicular Ad Hoc Networks. *Ros, Francisco Javier, +, TMC Jan. 2012 33-46*
Approximation Algorithms for Data Broadcast in Wireless Networks. *Gandhi, Rajiv, +, TMC July 2012 1237-1248*
Fast Capture—Recapture Approach for Mitigating the Problem of Missing RFID Tags. *Fyhn, Karsten, +, TMC March 2012 518-528*
Jointly Optimal Source-Flow, Transmit-Power, and Sending-Rate Control for Maximum-Throughput Delivery of VBR Traffic over Faded Links. *Baccarelli, Enzo, +, TMC March 2012 390-401*
Modeling and Performance Evaluation of Backoff Misbehaving Nodes in CSMA/CA Networks. *Lu, Zhuo, +, TMC Aug. 2012 1331-1344*
On the Vulnerabilities of CSI in MIMO Wireless Communication Systems. *Miller, Rob, +, TMC Aug. 2012 1386-1398*
Opportunistic Retransmission in WLANs. *Lu, Mei-Hsuan, +, TMC Dec. 2012 1953-1969*
PET: Probabilistic Estimating Tree for Large-Scale RFID Estimation. *Zheng, Yuanqing, +, TMC Nov. 2012 1763-1774*
ProSpect: A Proactive Spectrum Handoff Framework for Cognitive Radio Ad Hoc Networks without Common Control Channel. *Song, Yi, +, TMC July 2012 1127-1139*
Resource-Aware Video Multicasting via Access Gateways in Wireless Mesh Networks. *Tu, Wanqing, +, TMC June 2012 881-895*

Shaping Throughput Profiles in Multihop Wireless Networks: A Resource-Biasing Approach. *Singh, Sumit, +, TMC March 2012 367-376*
Spectrum: Lightweight Hybrid Address Autoconfiguration Protocol Based on Virtual Coordinates for 6LoWPAN. *Shin, Hyojeong, +, TMC Nov. 2012 1749-1762*
Sum Rate Increase via Variable Interference Protection. *Sinanović, Sinan, +, TMC Dec. 2012 2121-2132*
Thwarting Control-Channel Jamming Attacks from Inside Jammers. *Liu, Sisi, +, TMC Sept. 2012 1545-1558*
Two Couple-Resolution Blocking Protocols on Adaptive Query Splitting for RFID Tag Identification. *Lai, Yuan-Cheng, +, TMC Oct. 2012 1450-1463*

Prototypes
Using Rotatable and Directional (R&D) Sensors to Achieve Temporal Coverage of Objects and Its Surveillance Application. *Wang, You-Chiun, +, TMC Aug. 2012 1358-1371*

Pseudonoise codes
Chip Error Pattern Analysis in IEEE 802.15.4. *Wu, Kaishun, +, TMC April 2012 543-552*

Public key cryptography
A Comment on "MABS: Multicast Authentication Based on Batch Signature”. *Zhu, Wen Tao, +, TMC Nov. 2012 1775-1776*
FESCIM: Fair, Efficient, and Secure Cooperation Incentive Mechanism for Multihop Cellular Networks. *Mahmoud, Mohamed M.E.A., +, TMC May 2012 753-766*

Q

Quality of service
A Novel MAC Scheme for Multichannel Cognitive Radio Ad Hoc Networks. *Jeon, Wha Sook, +, TMC June 2012 922-934*
Admission and Eviction Control of Cognitive Radio Users at Wi-Fi 2.0 Hotspots. *Kim, Hyoil, +, TMC Nov. 2012 1666-1677*
Delay Optimal Scheduling for Cognitive Radios with Cooperative Beamforming: A Structured Matrix-Geometric Method. *Liu, Juan, +, TMC Aug. 2012 1412-1423*
Design and Analysis of Transmission Strategies in Channel-Hopping Cognitive Radio Networks. *Lee, Chi-Mao, +, TMC Oct. 2012 1569-1584*
Energy-Efficient Cooperative Video Distribution with Statistical QoS Provisions over Wireless Networks. *Abdel Khalek, Amin, +, TMC July 2012 1223-1236*
Hop-by-Hop Routing in Wireless Mesh Networks with Bandwidth Guarantees. *Hou, Ronghui, +, TMC Feb. 2012 264-277*
IMeX: Intergateway Cross-Layer Handoffs in Internet-Based Infrastructure Wireless Mesh Networks. *Zhao, Weiyi, +, TMC Oct. 2012 1585-1600*
Improving QoS in High-Speed Mobility Using Bandwidth Maps. *Yao, Jun, +, TMC April 2012 603-617*
Radio Resource Management of Composite Wireless Networks: Predictive and Reactive Approaches. *Ong, Eng Hwee, +, TMC May 2012 807-820*

Query languages
Scalable Activity-Travel Pattern Monitoring Framework for Large-Scale City Environment. *Lee, Youngki, +, TMC April 2012 644-662*

Query processing
Scalable Activity-Travel Pattern Monitoring Framework for Large-Scale City Environment. *Lee, Youngki, +, TMC April 2012 644-662*

Queueing analysis
Modeling and Analysis for Spectrum Handoffs in Cognitive Radio Networks. *Wang, Li-Chun, +, TMC Sept. 2012 1499-1513*

Queueing theory
Distributed and Online Fair Resource Management in Video Surveillance Sensor Networks. *Durmus, Yunus, +, TMC May 2012 835-848*
Jointly Optimal Source-Flow, Transmit-Power, and Sending-Rate Control for Maximum-Throughput Delivery of VBR Traffic over Faded Links. *Baccarelli, Enzo, +, TMC March 2012 390-401*
Modeling and Performance Analysis for Duty-Cycled MAC Protocols with Applications to S-MAC and X-MAC. *Yang, Ou, +, TMC June 2012 905-921*

R

Radio access networks
A Statistical Mechanics-Based Framework to Analyze Ad Hoc Networks with Random Access. *Srinivasa, Sunil, +, TMC April 2012 618-630*
On the Origins of Heavy-Tailed Delay in Dynamic Spectrum Access Networks. *Wang, Pu, +, TMC Feb. 2012 204-217*
Radio Resource Management of Composite Wireless Networks: Predictive and Reactive Approaches. *Ong, Eng Hwee, +, TMC May 2012 807-820*

Radio broadcasting
Local Broadcast Algorithms in Wireless Ad Hoc Networks: Reducing the Number of Transmissions. *Khabbazian, Majid, +, TMC March 2012 402-413*

Radio direction-finding
Positional Accuracy Measurement and Error Modeling for Mobile Tracking. *Sharp, Ian, +, TMC June 2012 1021-1032*

Radio links
Cross-Layer Optimization of Correlated Data Gathering in Wireless Sensor Networks. *He, Shibo, +, TMC Nov. 2012 1678-1691*
Elevator-Assisted Sensor Data Collection for Structural Health Monitoring. *Zhang, Tao, +, TMC Oct. 2012 1555-1568*
Fast Capture—Recapture Approach for Mitigating the Problem of Missing RFID Tags. *Fyhn, Karsten, +, TMC March 2012 518-528*
Jointly Optimal Source-Flow, Transmit-Power, and Sending-Rate Control for Maximum-Throughput Delivery of VBR Traffic over Faded Links. *Baccarelli, Enzo, +, TMC March 2012 390-401*
Link Positions Matter: A Noncommutative Routing Metric for Wireless Mesh Networks. *Jakllari, Gentian, +, TMC Jan. 2012 61-72*

Radio networks
A Fade-Level Skew-Laplace Signal Strength Model for Device-Free Localization with Wireless Networks. *Wilson, Joey, +, TMC June 2012 947-958*
Approximation Algorithms for Data Broadcast in Wireless Networks. *Gandhi, Rajiv, +, TMC July 2012 1237-1248*
Cluster-Based Control Channel Allocation in Opportunistic Cognitive Radio Networks. *Liu, Sisi, +, TMC Oct. 2012 1436-1449*
Distributed Throughput Maximization in Wireless Networks via Random Power Allocation. *Lee, Hyang-Won, +, TMC April 2012 577-590*
Efficient Virtual Backbone Construction with Routing Cost Constraint in Wireless Networks Using Directional Antennas. *Ding, Ling, +, TMC July 2012 1102-1112*
Improving QoS in High-Speed Mobility Using Bandwidth Maps. *Yao, Jun, +, TMC April 2012 603-617*
Local Greedy Approximation for Scheduling in Multihop Wireless Networks. *Joo, Changhee, +, TMC March 2012 414-426*
SenseLess: A Database-Driven White Spaces Network. *Murty, Rohan, +, TMC Feb. 2012 189-203*
Shaping Throughput Profiles in Multihop Wireless Networks: A Resource-Biasing Approach. *Singh, Sumit, +, TMC March 2012 367-376*
Understanding the Interaction between Packet Forwarding and Channel Access in Multihop Wireless Networks. *Wang, Xin, +, TMC April 2012 679-691*

Radio receivers
Enhancing Privacy and Accuracy in Probe Vehicle-Based Traffic Monitoring via Virtual Trip Lines. *Hoh, Baik, +, TMC May 2012 849-864*
Geometry and Motion-Based Positioning Algorithms for Mobile Tracking in NLOS Environments. *Yu, Kegen, +, TMC Feb. 2012 254-263*
Stateless Multicast Protocol for Ad Hoc Networks. *Feng, Chen-Hsiang, +, TMC Feb. 2012 240-253*

Radio spectrum management
Channel Estimation for Opportunistic Spectrum Access: Uniform and Random Sensing. *Liang, Quanquan, +, TMC Aug. 2012 1304-1316*
Cluster-Based Control Channel Allocation in Opportunistic Cognitive Radio Networks. *Liu, Sisi, +, TMC Oct. 2012 1436-1449*
Duopoly Competition in Dynamic Spectrum Leasing and Pricing. *Duan, Lingjie, +, TMC Nov. 2012 1706-1719*
Efficient and Fair Bandwidth Allocation in Multichannel Cognitive Radio Networks. *Xu, Dan, +, TMC Aug. 2012 1372-1385*
Exploiting Spectrum Heterogeneity in Dynamic Spectrum Market. *Min, Alexander W., +, TMC Dec. 2012 2020-2032*
Guest Editorial: Special Section on Outstanding Papers from DySPAN 2011. *Mahonen, Petri, +, TMC Feb. 2012 177*
The X Loss: Band-Mix Selection for Opportunistic Spectrum Accessing with Uncertain Spectrum Supply from Primary Service Providers. *Pan, Miao, +, TMC Dec. 2012 2133-2144*
Using Partially Overlapping Channels to Improve Throughput in Wireless Mesh Networks. *Ding, Yong, +, TMC Nov. 2012 1720-1733*

Radio transceivers
Handling Triple Hidden Terminal Problems for Multichannel MAC in Long-Delay Underwater Sensor Networks. *Zhou, Zhong, +, TMC Jan. 2012 139-154*

Secure Initialization of Multiple Constrained Wireless Devices for an Unaided User. *Perkovic, Toni, +, TMC Feb. 2012 337-351*

Radiofrequency identification
Directed by Directionality: Benefiting from the Gain Pattern of Active RFID Badges. *Zhao, Yang, +, TMC May 2012 865-877*
Error Resilient Estimation and Adaptive Binary Selection for Fast and Reliable Identification of RFID Tags in Error-Prone Channel. *Park, Jongho, +, TMC June 2012 959-969*
Fast Capture—Recapture Approach for Mitigating the Problem of Missing RFID Tags. *Fyhn, Karsten, +, TMC March 2012 518-528*
PET: Probabilistic Estimating Tree for Large-Scale RFID Estimation. *Zheng, Yuanqing, +, TMC Nov. 2012 1763-1774*
Two Couple-Resolution Blocking Protocols on Adaptive Query Splitting for RFID Tag Identification. *Lai, Yuan-Cheng, +, TMC Oct. 2012 1450-1463*

Radiofrequency interference
Distributed Throughput Maximization in Wireless Networks via Random Power Allocation. *Lee, Hyang-Won, +, TMC April 2012 577-590*
Fast Data Collection in Tree-Based Wireless Sensor Networks. *Durmaz Incel, Ozlem, +, TMC Jan. 2012 86-99*
Hop-by-Hop Routing in Wireless Mesh Networks with Bandwidth Guarantees. *Hou, Ronghui, +, TMC Feb. 2012 264-277*
Robust Topology Engineering in Multiradio Multichannel Wireless Networks. *Hua, Cunqing, +, TMC March 2012 492-503*
Using Partially Overlapping Channels to Improve Throughput in Wireless Mesh Networks. *Ding, Yong, +, TMC Nov. 2012 1720-1733*

Radiofrequency measurement
Target Tracking in Wireless Sensor Networks Based on the Combination of KF and MLE Using Distance Measurements. *Wang, Xingbo, +, TMC April 2012 567-576*

Radionavigation
Positional Accuracy Measurement and Error Modeling for Mobile Tracking. *Sharp, Ian, +, TMC June 2012 1021-1032*

Radiowave propagation
Geometry and Motion-Based Positioning Algorithms for Mobile Tracking in NLOS Environments. *Yu, Kegen, +, TMC Feb. 2012 254-263*

Random processes
Modeling and Analysis for Spectrum Handoffs in Cognitive Radio Networks. *Wang, Li-Chun, +, TMC Sept. 2012 1499-1513*

Random variables
Temporal Correlation of Interference in Wireless Networks with Rayleigh Block Fading. *Schilcher, Udo, +, TMC Dec. 2012 2109-2120*

Rate distortion theory
On the Cost of Knowledge of Mobility in Dynamic Networks: An Information-Theoretic Approach. *Wang, Di, +, TMC June 2012 995-1006*

Rayleigh channels
Temporal Correlation of Interference in Wireless Networks with Rayleigh Block Fading. *Schilcher, Udo, +, TMC Dec. 2012 2109-2120*

Real time systems
STORM: A Framework for Integrated Routing, Scheduling, and Traffic Management in Ad Hoc Networks. *Garcia-Luna-Aceves, J.J., +, TMC Aug. 2012 1345-1357*

Receivers
E-MiLi: Energy-Minimizing Idle Listening in Wireless Networks. *Zhang, Xinyu, +, TMC Sept. 2012 1441-1454*
Exploiting Spectrum Heterogeneity in Dynamic Spectrum Market. *Min, Alexander W., +, TMC Dec. 2012 2020-2032*
On the Throughput Capacity of Heterogeneous Wireless Networks. *Li, Pan, +, TMC Dec. 2012 2073-2086*
Opportunistic Retransmission in WLANs. *Lu, Mei-Hsuan, +, TMC Dec. 2012 1953-1969*
Side Channel: Bits over Interference. *Wu, Kaishun, +, TMC Aug. 2012 1317-1330*
Sum Rate Increase via Variable Interference Protection. *Sinanović, Sinan, +, TMC Dec. 2012 2121-2132*

Reed-Solomon codes
Differentiated Protection of Video Layers to Improve Perceived Quality. *Kang, Kyungtae, +, TMC Feb. 2012 292-304*

Relays
Opportunistic Retransmission in WLANs. *Lu, Mei-Hsuan, +, TMC Dec. 2012 1953-1969*
Two-Tiered Constrained Relay Node Placement in Wireless Sensor Networks: Computational Complexity and Efficient Approximations. *Yang, Dejun, +, TMC Aug. 2012 1399-1411*

Rendering (computer graphics)
Chameleon: A Color-Adaptive Web Browser for Mobile OLED Displays. *Dong, Mian, +, TMC May 2012 724-738*

Resource allocation
Energy-Efficient Video Multicast in 4G Wireless Systems. *Yu, Ya-Ju, +, TMC Oct. 2012 1508-1522*
Handling Selfishness in Replica Allocation over a Mobile Ad Hoc Network. *Choi, Jae-Ho, +, TMC Feb. 2012 278-291*
Heuristic Burst Construction Algorithm for Improving Downlink Capacity in IEEE 802.16 OFDMA Systems. *Baek, Joo-Young, +, TMC Jan. 2012 155-168*
Maximum Entropy Principle-Based Algorithm for Simultaneous Resource Location and Multihop Routing in Multiagent Networks. *Kale, Nachiket V., +, TMC April 2012 591-602*
OMAN: A Mobile Ad Hoc Network Design System. *Fridman, Alex, +, TMC July 2012 1179-1191*
Radio Resource Management of Composite Wireless Networks: Predictive and Reactive Approaches. *Ong, Eng Hwee, +, TMC May 2012 807-820*
Shaping Throughput Profiles in Multihop Wireless Networks: A Resource-Biasing Approach. *Singh, Sumit, +, TMC March 2012 367-376*
WiMAX/OFDMA Burst Scheduling Algorithm to Maximize Scheduled Data. *Nusairat, Ashraf, +, TMC Nov. 2012 1692-1705*

Risk analysis
Risk-Aware Distributed Beacon Scheduling for Tree-Based ZigBee Wireless Networks. *Yen, Li-Hsing, +, TMC April 2012 692-703*

Road traffic
Leveraging Smartphone Cameras for Collaborative Road Advisories. *Koukoumidis, Emmanouil, +, TMC May 2012 707-723*

Road vehicles
Cooperative Download in Vehicular Environments. *Trullols-Cruces, Oscar, +, TMC April 2012 663-678*
Scalable Activity-Travel Pattern Monitoring Framework for Large-Scale City Environment. *Lee, Youngki, +, TMC April 2012 644-662*

Routing protocols
Game-Theoretic Analysis of Cooperation Incentive Strategies in Mobile Ad Hoc Networks. *Li, Ze, +, TMC Aug. 2012 1287-1303*
Hop-by-Hop Routing in Wireless Mesh Networks with Bandwidth Guarantees. *Hou, Ronghui, +, TMC Feb. 2012 264-277*
Link Positions Matter: A Noncommutative Routing Metric for Wireless Mesh Networks. *Jakllari, Gentian, +, TMC Jan. 2012 61-72*
On the Cost of Knowledge of Mobility in Dynamic Networks: An Information-Theoretic Approach. *Wang, Di, +, TMC June 2012 995-1006*
Self-Adaptive On-Demand Geographic Routing for Mobile Ad Hoc Networks. *Xiang, Xiaojing, +, TMC Sept. 2012 1572-1586*
Stateless Multicast Protocol for Ad Hoc Networks. *Feng, Chen-Hsiang, +, TMC Feb. 2012 240-253*
STORM: A Framework for Integrated Routing, Scheduling, and Traffic Management in Ad Hoc Networks. *Garcia-Luna-Aceves, J.J., +, TMC Aug. 2012 1345-1357*
The Boomerang Protocol: Tying Data to Geographic Locations in Mobile Disconnected Networks. *Sun, Tingting, +, TMC July 2012 1113-1126*
Toward Reliable Data Delivery for Highly Dynamic Mobile Ad Hoc Networks. *Yang, Shengbo, +, TMC Jan. 2012 111-124*
Trajectory-Based Statistical Forwarding for Multihop Infrastructure-to-Vehicle Data Delivery. *Jeong, Jaehoon (Paul), +, TMC Oct. 2012 1523-1537*

S

Scheduling
Exploiting Spatial, Frequency, and Multiuser Diversity in 3GPP LTE Cellular Networks. *Lee, Suk-Bok, +, TMC Nov. 2012 1652-1665*
Fast Data Collection in Tree-Based Wireless Sensor Networks. *Durmaz Incel, Ozlem, +, TMC Jan. 2012 86-99*
Local Greedy Approximation for Scheduling in Multihop Wireless Networks. *Joo, Changhee, +, TMC March 2012 414-426*
Message Drop and Scheduling in DTNs: Theory and Practice. *Krifa, Amir, +, TMC Sept. 2012 1470-1483*
OLM: Opportunistic Layered Multicasting for Scalable IPTV over Mobile WiMAX. *Huang, Chih-Wei, +, TMC March 2012 453-463*
Relay-Assisted Transmission with Fairness Constraint for Cellular Networks. *Liu, Erwu, +, TMC Feb. 2012 230-239*

Risk-Aware Distributed Beacon Scheduling for Tree-Based ZigBee Wireless Networks. *Yen, Li-Hsing, +, TMC April 2012 692-703*
Who, When, Where: Timeslot Assignment to Mobile Clients. *Chen, Fangfei, +, TMC Jan. 2012 73-85*
WiMAX/OFDMA Burst Scheduling Algorithm to Maximize Scheduled Data. *Nusairat, Ashraf, +, TMC Nov. 2012 1692-1705*

Search problems
Collaborative and Distributed Search System with Mobile Devices. *Shen, Chih-Ya, +, TMC Oct. 2012 1478-1493*

Security
An Iterative Algorithm for Trust Management and Adversary Detection for Delay-Tolerant Networks. *Ayday, Erman, +, TMC Sept. 2012 1514-1531*
Directed by Directionality: Benefiting from the Gain Pattern of Active RFID Badges. *Zhao, Yang, +, TMC May 2012 865-877*

Security of data
Detection of Selfish Manipulation of Carrier Sensing in 802.11 Networks. *Pelechrinis, Konstantinos, +, TMC July 2012 1086-1101*
Differentiated Protection of Video Layers to Improve Perceived Quality. *Kang, Kyungtae, +, TMC Feb. 2012 292-304*

Sensor fusion
Resource-Optimized Quality-Assured Ambiguous Context Mediation Framework in Pervasive Environments. *Roy, Nirmalya, +, TMC Feb. 2012 218-229*

Sensor systems
Using Rotatable and Directional (R&D) Sensors to Achieve Temporal Coverage of Objects and Its Surveillance Application. *Wang, You-Chiun, +, TMC Aug. 2012 1358-1371*

Sensors
Estimating Parameters of Multiple Heterogeneous Target Objects Using Composite Sensor Nodes. *Saito, Hiroshi, +, TMC Jan. 2012 125-138*
FLUID: Improving Throughputs in Enterprise Wireless LANs through Flexible Channelization. *Rayanchu, Shravan, +, TMC Sept. 2012 1455-1469*

Signal detection
Detection of Selfish Manipulation of Carrier Sensing in 802.11 Networks. *Pelechrinis, Konstantinos, +, TMC July 2012 1086-1101*
Leveraging Smartphone Cameras for Collaborative Road Advisories. *Koukoumidis, Emmanouil, +, TMC May 2012 707-723*

Signal processing
A Fade-Level Skew-Laplace Signal Strength Model for Device-Free Localization with Wireless Networks. *Wilson, Joey, +, TMC June 2012 947-958*

Signal to noise ratio
Efficient Distributed Algorithms for Dynamic Access to Shared Multiuser Channels in SINR-Constrained Wireless Networks. *Kučera, Štěpán, +, TMC Dec. 2012 2087-2097*
Exploiting Spectrum Heterogeneity in Dynamic Spectrum Market. *Min, Alexander W., +, TMC Dec. 2012 2020-2032*

Smart phones
Enhancing Privacy and Accuracy in Probe Vehicle-Based Traffic Monitoring via Virtual Trip Lines. *Hoh, Baik, +, TMC May 2012 849-864*
Leveraging Smartphone Cameras for Collaborative Road Advisories. *Koukoumidis, Emmanouil, +, TMC May 2012 707-723*
Mobile Data Offloading through Opportunistic Communications and Social Participation. *Han, Bo, +, TMC May 2012 821-834*
Sensing Driver Phone Use with Acoustic Ranging through Car Speakers. *Yang, Jie, +, TMC Sept. 2012 1426-1440*

Smoothing methods
Indoor Location Estimation with Reduced Calibration Exploiting Unlabeled Data via Hybrid Generative/Discriminative Learning. *Ouyang, Robin Wentao, +, TMC Nov. 2012 1613-1626*

Social networking (online)
Mobile Data Offloading through Opportunistic Communications and Social Participation. *Han, Bo, +, TMC May 2012 821-834*

Software radio
E-MiLi: Energy-Minimizing Idle Listening in Wireless Networks. *Zhang, Xinyu, +, TMC Sept. 2012 1441-1454*

Space division multiplexing
Exploiting Spatial, Frequency, and Multiuser Diversity in 3GPP LTE Cellular Networks. *Lee, Suk-Bok, +, TMC Nov. 2012 1652-1665*

Special issues and sections
Guest Editorial: Special Section on Outstanding Papers from MobiSys 2011. *Gruteser, Marco, +, TMC May 2012 705-706*
Guest Editorial: Special Section on Outstanding Papers from DySPAN 2011. *Mahonen, Petri, +, TMC Feb. 2012 177*
Guest Editorial: Special Section on Outstanding Papers from MobiCom 2011. *Nandagopal, Thyaga, +, TMC Sept. 2012 1425*

Spectral analysis
Efficient Distributed Algorithms for Dynamic Access to Shared Multiuser Channels in SINR-Constrained Wireless Networks. *Kučera, Štěpán, +, TMC Dec. 2012 2087-2097*
Mining Spectrum Usage Data: A Large-Scale Spectrum Measurement Study. *Yin, Sixing, +, TMC June 2012 1033-1046*

Spread spectrum communication
Guest Editorial: Special Section on Outstanding Papers from DySPAN 2011. *Mahonen, Petri, +, TMC Feb. 2012 177*
FLUID: Improving Throughputs in Enterprise Wireless LANs through Flexible Channelization. *Rayanchu, Shravan, +, TMC Sept. 2012 1455-1469*

State estimation
Controlled Mobility Sensor Networks for Target Tracking Using Ant Colony Optimization. *Mourad, Farah, +, TMC Aug. 2012 1261-1273*
Resource-Optimized Quality-Assured Ambiguous Context Mediation Framework in Pervasive Environments. *Roy, Nirmalya, +, TMC Feb. 2012 218-229*

Statistical analysis
A Fade-Level Skew-Laplace Signal Strength Model for Device-Free Localization with Wireless Networks. *Wilson, Joey, +, TMC June 2012 947-958*
Energy-Efficient Cooperative Video Distribution with Statistical QoS Provisions over Wireless Networks. *Abdel Khalek, Amin, +, TMC July 2012 1223-1236*
Fast Capture—Recapture Approach for Mitigating the Problem of Missing RFID Tags. *Fyhn, Karsten, +, TMC March 2012 518-528*
Measurement-Based Bandwidth Scavenging in Wireless Networks. *Plummer Jr., Anthony, +, TMC Jan. 2012 19-32*
Trajectory-Based Statistical Forwarding for Multihop Infrastructure-to-Vehicle Data Delivery. *Jeong, Jaehoon (Paul), +, TMC Oct. 2012 1523-1537*
TV White Space in Europe. *van de Beek, Jaap, +, TMC Feb. 2012 178-188*

Statistical mechanics
A Statistical Mechanics-Based Framework to Analyze Ad Hoc Networks with Random Access. *Srinivasa, Sunil, +, TMC April 2012 618-630*

Steiner trees
Two-Tiered Constrained Relay Node Placement in Wireless Sensor Networks: Computational Complexity and Efficient Approximations. *Yang, Dejun, +, TMC Aug. 2012 1399-1411*

Stochastic processes
Design and Analysis of the Gateway Relocation and Admission Control Algorithm in Mobile WiMAX Networks. *Liu, Zong-Hua, +, TMC Jan. 2012 5-18*

Streaming media
Adaptive In-Network Processing for Bandwidth and Energy Constrained Mission-Oriented Multihop Wireless Networks. *Eswaran, Sharanya, +, TMC Sept. 2012 1484-1498*

Structural engineering
Elevator-Assisted Sensor Data Collection for Structural Health Monitoring. *Zhang, Tao, +, TMC Oct. 2012 1555-1568*

Sufficient conditions
Understanding Node Localizability of Wireless Ad Hoc and Sensor Networks. *Yang, Zheng, +, TMC Aug. 2012 1249-1260*

Surveillance
The Digital Marauder's Map: A WiFi Forensic Positioning Tool. *Fu, Xinwen, +, TMC March 2012 377-389*
Using Rotatable and Directional (R&D) Sensors to Achieve Temporal Coverage of Objects and Its Surveillance Application. *Wang, You-Chiun, +, TMC Aug. 2012 1358-1371*

Switches
E-MiLi: Energy-Minimizing Idle Listening in Wireless Networks. *Zhang, Xinyu, +, TMC Sept. 2012 1441-1454*

Synchronization
Soft-TDMAC: A Software-Based 802.11 Overlay TDMA MAC with Microsecond Synchronization. *Djukic, Petar, +, TMC March 2012 478-491*
E-MiLi: Energy-Minimizing Idle Listening in Wireless Networks. *Zhang, Xinyu, +, TMC Sept. 2012 1441-1454*
Omnidirectional Mobile NLOS Identification and Localization via Multiple Cooperative Nodes. *Wang, Zhonghai, +, TMC Dec. 2012 2047-2059*
Side Channel: Bits over Interference. *Wu, Kaishun, +, TMC Aug. 2012 1317-1330*

+ Check author entry for coauthors

T

Target tracking
- Controlled Mobility Sensor Networks for Target Tracking Using Ant Colony Optimization. *Mourad, Farah, +, TMC Aug. 2012 1261-1273*
- Target Tracking in Wireless Sensor Networks Based on the Combination of KF and MLE Using Distance Measurements. *Wang, Xingbo, +, TMC April 2012 567-576*

Telecommunication channels
- Compressed-Sensing-Enabled Video Streaming for Wireless Multimedia Sensor Networks. *Pudlewski, Scott, +, TMC June 2012 1060-1072*
- Error Resilient Estimation and Adaptive Binary Selection for Fast and Reliable Identification of RFID Tags in Error-Prone Channel. *Park, Jongho, +, TMC June 2012 959-969*
- ProSpect: A Proactive Spectrum Handoff Framework for Cognitive Radio Ad Hoc Networks without Common Control Channel. *Song, Yi, +, TMC July 2012 1127-1139*
- RAM: Rate Adaptation in Mobile Environments. *Chen, Xi, +, TMC March 2012 464-477*

Telecommunication computing
- Indoor Location Estimation with Reduced Calibration Exploiting Unlabeled Data via Hybrid Generative/Discriminative Learning. *Ouyang, Robin Wentao, +, TMC Nov. 2012 1613-1626*
- Nature-Inspired Self-Organization, Control, and Optimization in Heterogeneous Wireless Networks. *Zhang, Haijun, +, TMC July 2012 1207-1222*
- Structural Analysis of User Association Patterns in University Campus Wireless LANs. *Hsu, Wei-Jen, +, TMC Nov. 2012 1734-1748*

Telecommunication congestion control
- Admission and Eviction Control of Cognitive Radio Users at Wi-Fi 2.0 Hotspots. *Kim, Hyoil, +, TMC Nov. 2012 1666-1677*
- Design and Analysis of the Gateway Relocation and Admission Control Algorithm in Mobile WiMAX Networks. *Liu, Zong-Hua, +, TMC Jan. 2012 5-18*
- Jointly Optimal Source-Flow, Transmit-Power, and Sending-Rate Control for Maximum-Throughput Delivery of VBR Traffic over Faded Links. *Baccarelli, Enzo, +, TMC March 2012 390-401*
- Risk-Aware Distributed Beacon Scheduling for Tree-Based ZigBee Wireless Networks. *Yen, Li-Hsing, +, TMC April 2012 692-703*

Telecommunication control
- Compressed-Sensing-Enabled Video Streaming for Wireless Multimedia Sensor Networks. *Pudlewski, Scott, +, TMC June 2012 1060-1072*
- ProSpect: A Proactive Spectrum Handoff Framework for Cognitive Radio Ad Hoc Networks without Common Control Channel. *Song, Yi, +, TMC July 2012 1127-1139*
- Robust Topology Engineering in Multiradio Multichannel Wireless Networks. *Hua, Cunqing, +, TMC March 2012 492-503*

Telecommunication network management
- Radio Resource Management of Composite Wireless Networks: Predictive and Reactive Approaches. *Ong, Eng Hwee, +, TMC May 2012 807-820*
- SenseLess: A Database-Driven White Spaces Network. *Murty, Rohan, +, TMC Feb. 2012 189-203*

Telecommunication network planning
- OMAN: A Mobile Ad Hoc Network Design System. *Fridman, Alex, +, TMC July 2012 1179-1191*

Telecommunication network reliability
- A Trigger Identification Service for Defending Reactive Jammers in WSN. *Xuan, Ying, +, TMC May 2012 793-806*
- Acknowledgment-Based Broadcast Protocol for Reliable and Efficient Data Dissemination in Vehicular Ad Hoc Networks. *Ros, Francisco Javier, +, TMC Jan. 2012 33-46*
- Error Resilient Estimation and Adaptive Binary Selection for Fast and Reliable Identification of RFID Tags in Error-Prone Channel. *Park, Jongho, +, TMC June 2012 959-969*
- Fast Capture—Recapture Approach for Mitigating the Problem of Missing RFID Tags. *Fyhn, Karsten, +, TMC March 2012 518-528*
- On Reliable Broadcast in Low Duty-Cycle Wireless Sensor Networks. *Wang, Feng, +, TMC May 2012 767-779*

Telecommunication network routing
- A Cost Analysis Framework for NEMO Prefix Delegation-Based Schemes. *Shahriar, Abu Zafar M., +, TMC July 2012 1192-1206*
- Chip Error Pattern Analysis in IEEE 802.15.4. *Wu, Kaishun, +, TMC April 2012 543-552*
- Cross-Layer Optimization of Correlated Data Gathering in Wireless Sensor Networks. *He, Shibo, +, TMC Nov. 2012 1678-1691*
- Efficient Virtual Backbone Construction with Routing Cost Constraint in Wireless Networks Using Directional Antennas. *Ding, Ling, +, TMC July 2012 1102-1112*
- Elevator-Assisted Sensor Data Collection for Structural Health Monitoring. *Zhang, Tao, +, TMC Oct. 2012 1555-1568*
- Leveraging the Algebraic Connectivity of a Cognitive Network for Routing Design. *Abbagnale, Anna, +, TMC July 2012 1163-1178*
- Maximum Entropy Principle-Based Algorithm for Simultaneous Resource Location and Multihop Routing in Multiagent Networks. *Kale, Nachiket V., +, TMC April 2012 591-602*
- Mobile Data Offloading through Opportunistic Communications and Social Participation. *Han, Bo, +, TMC May 2012 821-834*
- Resource-Aware Video Multicasting via Access Gateways in Wireless Mesh Networks. *Tu, Wanqing, +, TMC June 2012 881-895*
- Risk-Aware Distributed Beacon Scheduling for Tree-Based ZigBee Wireless Networks. *Yen, Li-Hsing, +, TMC April 2012 692-703*

Telecommunication network topology
- A Statistical Mechanics-Based Framework to Analyze Ad Hoc Networks with Random Access. *Srinivasa, Sunil, +, TMC April 2012 618-630*
- Energy-Efficient Cooperative Video Distribution with Statistical QoS Provisions over Wireless Networks. *Abdel Khalek, Amin, +, TMC July 2012 1223-1236*
- Fault Localization Using Passive End-to-End Measurements and Sequential Testing for Wireless Sensor Networks. *Wang, Bing, +, TMC March 2012 439-452*
- Local Broadcast Algorithms in Wireless Ad Hoc Networks: Reducing the Number of Transmissions. *Khabbazian, Majid, +, TMC March 2012 402-413*
- OMAN: A Mobile Ad Hoc Network Design System. *Fridman, Alex, +, TMC July 2012 1179-1191*
- Robust Topology Engineering in Multiradio Multichannel Wireless Networks. *Hua, Cunqing, +, TMC March 2012 492-503*
- Spectrum: Lightweight Hybrid Address Autoconfiguration Protocol Based on Virtual Coordinates for 6LoWPAN. *Shin, Hyojeong, +, TMC Nov. 2012 1749-1762*
- Tight Performance Bounds of Multihop Fair Access for MAC Protocols in Wireless Sensor Networks and Underwater Sensor Networks. *Xiao, Yang, +, TMC Oct. 2012 1538-1554*
- Understanding the Interaction between Packet Forwarding and Channel Access in Multihop Wireless Networks. *Wang, Xin, +, TMC April 2012 679-691*

Telecommunication security
- A Comment on "MABS: Multicast Authentication Based on Batch Signature”. *Zhu, Wen Tao, +, TMC Nov. 2012 1775-1776*
- A Trigger Identification Service for Defending Reactive Jammers in WSN. *Xuan, Ying, +, TMC May 2012 793-806*

Telecommunication services
- Thwarting Control-Channel Jamming Attacks from Inside Jammers. *Liu, Sisi, +, TMC Sept. 2012 1545-1558*

Telecommunication signaling
- A Cost Analysis Framework for NEMO Prefix Delegation-Based Schemes. *Shahriar, Abu Zafar M., +, TMC July 2012 1192-1206*

Telecommunication standards
- Detection of Selfish Manipulation of Carrier Sensing in 802.11 Networks. *Pelechrinis, Konstantinos, +, TMC July 2012 1086-1101*

Telecommunication switching
- ProSpect: A Proactive Spectrum Handoff Framework for Cognitive Radio Ad Hoc Networks without Common Control Channel. *Song, Yi, +, TMC July 2012 1127-1139*

Telecommunication traffic
- Avoiding the Rush Hours: WiFi Energy Management via Traffic Isolation. *Manweiler, Justin, +, TMC May 2012 739-752*
- Characterizing the Security Implications of Third-Party Emergency Alert Systems over Cellular Text Messaging Services. *Traynor, Patrick, +, TMC June 2012 983-994*
- Design and Analysis of Transmission Strategies in Channel-Hopping Cognitive Radio Networks. *Lee, Chi-Mao, +, TMC Oct. 2012 1569-1584*
- Design of Efficient Multicast Protocol for IEEE 802.11n WLANs and Cross-Layer Optimization for Scalable Video Streaming. *Lim, Wan-Seon, +, TMC May 2012 780-792*
- Elevator-Assisted Sensor Data Collection for Structural Health Monitoring. *Zhang, Tao, +, TMC Oct. 2012 1555-1568*

Jointly Optimal Source-Flow, Transmit-Power, and Sending-Rate Control for Maximum-Throughput Delivery of VBR Traffic over Faded Links. *Baccarelli, Enzo, +, TMC March 2012 390-401*
Leveraging the Algebraic Connectivity of a Cognitive Network for Routing Design. *Abbagnale, Anna, +, TMC July 2012 1163-1178*
Mobile Data Offloading through Opportunistic Communications and Social Participation. *Han, Bo, +, TMC May 2012 821-834*
Shaping Throughput Profiles in Multihop Wireless Networks: A Resource-Biasing Approach. *Singh, Sumit, +, TMC March 2012 367-376*
Stateless Multicast Protocol for Ad Hoc Networks. *Feng, Chen-Hsiang, +, TMC Feb. 2012 240-253*
STORM: A Framework for Integrated Routing, Scheduling, and Traffic Management in Ad Hoc Networks. *Garcia-Luna-Aceves, J.J., +, TMC Aug. 2012 1345-1357*
The X Loss: Band-Mix Selection for Opportunistic Spectrum Accessing with Uncertain Spectrum Supply from Primary Service Providers. *Pan, Miao, +, TMC Dec. 2012 2133-2144*

Television broadcasting
TV White Space in Europe. *van de Beek, Jaap, +, TMC Feb. 2012 178-188*

Throughput
Efficient and Fair Bandwidth Allocation in Multichannel Cognitive Radio Networks. *Xu, Dan, +, TMC Aug. 2012 1372-1385*
FLUID: Improving Throughputs in Enterprise Wireless LANs through Flexible Channelization. *Rayanchu, Shravan, +, TMC Sept. 2012 1455-1469*
Handover Incentives for Self-Interested WLANs with Overlapping Coverage. *Fafoutis, Xenofon, +, TMC Dec. 2012 2033-2046*
Modeling and Optimization of Medium Access in CSMA Wireless Networks with Topology Asymmetry. *Zhou, Anfu, +, TMC Sept. 2012 1559-1571*
Modeling and Performance Evaluation of Backoff Misbehaving Nodes in CSMA/CA Networks. *Lu, Zhuo, +, TMC Aug. 2012 1331-1344*
On the Throughput Capacity of Heterogeneous Wireless Networks. *Li, Pan, +, TMC Dec. 2012 2073-2086*
Side Channel: Bits over Interference. *Wu, Kaishun, +, TMC Aug. 2012 1317-1330*

Time division multiple access
Cluster-Based Control Channel Allocation in Opportunistic Cognitive Radio Networks. *Liu, Sisi, +, TMC Oct. 2012 1436-1449*
Soft-TDMAC: A Software-Based 802.11 Overlay TDMA MAC with Microsecond Synchronization. *Djukic, Petar, +, TMC March 2012 478-491*

Time frequency analysis
Sum Rate Increase via Variable Interference Protection. *Sinanović, Sinan, +, TMC Dec. 2012 2121-2132*

Time series
Investigation of Context Prediction Accuracy for Different Context Abstraction Levels. *Sigg, Stephan, +, TMC June 2012 1047-1059*

Topology
CapEst: A Measurement-Based Approach to Estimating Link Capacity in Wireless Networks. *Jindal, Apoorva, +, TMC Dec. 2012 2098-2108*
Modeling and Optimization of Medium Access in CSMA Wireless Networks with Topology Asymmetry. *Zhou, Anfu, +, TMC Sept. 2012 1559-1571*
Self-Adaptive On-Demand Geographic Routing for Mobile Ad Hoc Networks. *Xiang, Xiaojing, +, TMC Sept. 2012 1572-1586*

Town and country planning
Scalable Activity-Travel Pattern Monitoring Framework for Large-Scale City Environment. *Lee, Youngki, +, TMC April 2012 644-662*

Tracking
Correction to "Geometry and Motion-Based Positioning Algorithms for Mobile Tracking in NLOS Environments". *Yu, Kegen, +, TMC April 2012 704*

Tracking filters
Directed by Directionality: Benefiting from the Gain Pattern of Active RFID Badges. *Zhao, Yang, +, TMC May 2012 865-877*

Traffic engineering computing
Enhancing Privacy and Accuracy in Probe Vehicle-Based Traffic Monitoring via Virtual Trip Lines. *Hoh, Baik, +, TMC May 2012 849-864*

Transceivers
Optimal Hop Distance and Power Control for a Single Cell, Dense, Ad Hoc Wireless Network. *Ramaiyan, Venkatesh, +, TMC Nov. 2012 1601-1612*

Transmitters
Sum Rate Increase via Variable Interference Protection. *Sinanović, Sinan, +, TMC Dec. 2012 2121-2132*

Transport protocols
Link Positions Matter: A Noncommutative Routing Metric for Wireless Mesh Networks. *Jakllari, Gentian, +, TMC Jan. 2012 61-72*

Transportation
Scalable Activity-Travel Pattern Monitoring Framework for Large-Scale City Environment. *Lee, Youngki, +, TMC April 2012 644-662*

Travel industry
Scalable Activity-Travel Pattern Monitoring Framework for Large-Scale City Environment. *Lee, Youngki, +, TMC April 2012 644-662*

Trees (mathematics)
Fast Capture—Recapture Approach for Mitigating the Problem of Missing RFID Tags. *Fyhn, Karsten, +, TMC March 2012 518-528*
Fast Data Collection in Tree-Based Wireless Sensor Networks. *Durmaz Incel, Ozlem, +, TMC Jan. 2012 86-99*
PET: Probabilistic Estimating Tree for Large-Scale RFID Estimation. *Zheng, Yuanqing, +, TMC Nov. 2012 1763-1774*
Risk-Aware Distributed Beacon Scheduling for Tree-Based ZigBee Wireless Networks. *Yen, Li-Hsing, +, TMC April 2012 692-703*

Tuning
Detection of Selfish Manipulation of Carrier Sensing in 802.11 Networks. *Pelechrinis, Konstantinos, +, TMC July 2012 1086-1101*

U

Ubiquitous computing
Investigation of Context Prediction Accuracy for Different Context Abstraction Levels. *Sigg, Stephan, +, TMC June 2012 1047-1059*
Resource-Optimized Quality-Assured Ambiguous Context Mediation Framework in Pervasive Environments. *Roy, Nirmalya, +, TMC Feb. 2012 218-229*

Underwater acoustic communication
Handling Triple Hidden Terminal Problems for Multichannel MAC in Long-Delay Underwater Sensor Networks. *Zhou, Zhong, +, TMC Jan. 2012 139-154*
Tight Performance Bounds of Multihop Fair Access for MAC Protocols in Wireless Sensor Networks and Underwater Sensor Networks. *Xiao, Yang, +, TMC Oct. 2012 1538-1554*

Unicast
STORM: A Framework for Integrated Routing, Scheduling, and Traffic Management in Ad Hoc Networks. *Garcia-Luna-Aceves, J.J., +, TMC Aug. 2012 1345-1357*

Unsupervised learning
Structural Analysis of User Association Patterns in University Campus Wireless LANs. *Hsu, Wei-Jen, +, TMC Nov. 2012 1734-1748*

V

Vectors
Stochastic Vector Mobility Model for Mobile and Vehicular Ad Hoc Network Simulation. *Chung, Jong-Moon, +, TMC Oct. 2012 1494-1507*
Structural Analysis of User Association Patterns in University Campus Wireless LANs. *Hsu, Wei-Jen, +, TMC Nov. 2012 1734-1748*

Vehicle safety
Sensing Driver Phone Use with Acoustic Ranging through Car Speakers. *Yang, Jie, +, TMC Sept. 2012 1426-1440*

Vehicular ad hoc networks
Acknowledgment-Based Broadcast Protocol for Reliable and Efficient Data Dissemination in Vehicular Ad Hoc Networks. *Ros, Francisco Javier, +, TMC Jan. 2012 33-46*
Stochastic Vector Mobility Model for Mobile and Vehicular Ad Hoc Network Simulation. *Chung, Jong-Moon, +, TMC Oct. 2012 1494-1507*
Trajectory-Based Statistical Forwarding for Multihop Infrastructure-to-Vehicle Data Delivery. *Jeong, Jaehoon (Paul), +, TMC Oct. 2012 1523-1537*

Video cameras
Leveraging Smartphone Cameras for Collaborative Road Advisories. *Koukoumidis, Emmanouil, +, TMC May 2012 707-723*

Video coding
Compressed-Sensing-Enabled Video Streaming for Wireless Multimedia Sensor Networks. *Pudlewski, Scott, +, TMC June 2012 1060-1072*

Differentiated Protection of Video Layers to Improve Perceived Quality. *Kang, Kyungtae, +, TMC Feb. 2012 292-304*
Energy-Efficient Cooperative Video Distribution with Statistical QoS Provisions over Wireless Networks. *Abdel Khalek, Amin, +, TMC July 2012 1223-1236*
Energy-Efficient Video Multicast in 4G Wireless Systems. *Yu, Ya-Ju, +, TMC Oct. 2012 1508-1522*
OLM: Opportunistic Layered Multicasting for Scalable IPTV over Mobile WiMAX. *Huang, Chih-Wei, +, TMC March 2012 453-463*

Video communication
Resource-Aware Video Multicasting via Access Gateways in Wireless Mesh Networks. *Tu, Wanqing, +, TMC June 2012 881-895*

Video streaming
Compressed-Sensing-Enabled Video Streaming for Wireless Multimedia Sensor Networks. *Pudlewski, Scott, +, TMC June 2012 1060-1072*
Design of Efficient Multicast Protocol for IEEE 802.11n WLANs and Cross-Layer Optimization for Scalable Video Streaming. *Lim, Wan-Seon, +, TMC May 2012 780-792*
Differentiated Protection of Video Layers to Improve Perceived Quality. *Kang, Kyungtae, +, TMC Feb. 2012 292-304*
Energy-Efficient Cooperative Video Distribution with Statistical QoS Provisions over Wireless Networks. *Abdel Khalek, Amin, +, TMC July 2012 1223-1236*
OLM: Opportunistic Layered Multicasting for Scalable IPTV over Mobile WiMAX. *Huang, Chih-Wei, +, TMC March 2012 453-463*

Video surveillance
Distributed and Online Fair Resource Management in Video Surveillance Sensor Networks. *Durmus, Yunus, +, TMC May 2012 835-848*

W

Wearable antennas
Directed by Directionality: Benefiting from the Gain Pattern of Active RFID Badges. *Zhao, Yang, +, TMC May 2012 865-877*

Web design
Chameleon: A Color-Adaptive Web Browser for Mobile OLED Displays. *Dong, Mian, +, TMC May 2012 724-738*

Wide area networks
Improving QoS in High-Speed Mobility Using Bandwidth Maps. *Yao, Jun, +, TMC April 2012 603-617*

WiMax
Design and Analysis of the Gateway Relocation and Admission Control Algorithm in Mobile WiMAX Networks. *Liu, Zong-Hua, +, TMC Jan. 2012 5-18*
Enhanced Fast Base Station Switching. *Chi, Kuang-Hui, +, TMC Nov. 2012 1640-1651*
Heuristic Burst Construction Algorithm for Improving Downlink Capacity in IEEE 802.16 OFDMA Systems. *Baek, Joo-Young, +, TMC Jan. 2012 155-168*
OLM: Opportunistic Layered Multicasting for Scalable IPTV over Mobile WiMAX. *Huang, Chih-Wei, +, TMC March 2012 453-463*
WiMAX/OFDMA Burst Scheduling Algorithm to Maximize Scheduled Data. *Nusairat, Ashraf, +, TMC Nov. 2012 1692-1705*

Wireless channels
Design of Efficient Multicast Protocol for IEEE 802.11n WLANs and Cross-Layer Optimization for Scalable Video Streaming. *Lim, Wan-Seon, +, TMC May 2012 780-792*
Handling Triple Hidden Terminal Problems for Multichannel MAC in Long-Delay Underwater Sensor Networks. *Zhou, Zhong, +, TMC Jan. 2012 139-154*
Jointly Optimal Source-Flow, Transmit-Power, and Sending-Rate Control for Maximum-Throughput Delivery of VBR Traffic over Faded Links. *Baccarelli, Enzo, +, TMC March 2012 390-401*
Mining Spectrum Usage Data: A Large-Scale Spectrum Measurement Study. *Yin, Sixing, +, TMC June 2012 1033-1046*
On the Origins of Heavy-Tailed Delay in Dynamic Spectrum Access Networks. *Wang, Pu, +, TMC Feb. 2012 204-217*
Robust Topology Engineering in Multiradio Multichannel Wireless Networks. *Hua, Cunqing, +, TMC March 2012 492-503*
Understanding the Interaction between Packet Forwarding and Channel Access in Multihop Wireless Networks. *Wang, Xin, +, TMC April 2012 679-691*
Using Partially Overlapping Channels to Improve Throughput in Wireless Mesh Networks. *Ding, Yong, +, TMC Nov. 2012 1720-1733*

Wireless communication
A 6LoWPAN Sensor Node Mobility Scheme Based on Proxy Mobile IPv6. *Kim, Jinho, +, TMC Dec. 2012 2060-2072*
Efficient Distributed Algorithms for Dynamic Access to Shared Multiuser Channels in SINR-Constrained Wireless Networks. *Kučera, Štěpán, +, TMC Dec. 2012 2087-2097*
Exploiting Spectrum Heterogeneity in Dynamic Spectrum Market. *Min, Alexander W., +, TMC Dec. 2012 2020-2032*
On the Vulnerabilities of CSI in MIMO Wireless Communication Systems. *Miller, Rob, +, TMC Aug. 2012 1386-1398*
Opportunistic Retransmission in WLANs. *Lu, Mei-Hsuan, +, TMC Dec. 2012 1953-1969*
Temporal Correlation of Interference in Wireless Networks with Rayleigh Block Fading. *Schilcher, Udo, +, TMC Dec. 2012 2109-2120*
Understanding Node Localizability of Wireless Ad Hoc and Sensor Networks. *Yang, Zheng, +, TMC Aug. 2012 1249-1260*

Wireless LAN
Admission and Eviction Control of Cognitive Radio Users at Wi-Fi 2.0 Hotspots. *Kim, Hyoil, +, TMC Nov. 2012 1666-1677*
Avoiding the Rush Hours: WiFi Energy Management via Traffic Isolation. *Manweiler, Justin, +, TMC May 2012 739-752*
Design of Efficient Multicast Protocol for IEEE 802.11n WLANs and Cross-Layer Optimization for Scalable Video Streaming. *Lim, Wan-Seon, +, TMC May 2012 780-792*
Detection of Selfish Manipulation of Carrier Sensing in 802.11 Networks. *Pelechrinis, Konstantinos, +, TMC July 2012 1086-1101*
FLUID: Improving Throughputs in Enterprise Wireless LANs through Flexible Channelization. *Rayanchu, Shravan, +, TMC Sept. 2012 1455-1469*
Guest Editorial: Special Section on Outstanding Papers from MobiCom 2011. *Nandagopal, Thyaga, +, TMC Sept. 2012 1425*
Handover Incentives for Self-Interested WLANs with Overlapping Coverage. *Fafoutis, Xenofon, +, TMC Dec. 2012 2033-2046*
Indoor Location Estimation with Reduced Calibration Exploiting Unlabeled Data via Hybrid Generative/Discriminative Learning. *Ouyang, Robin Wentao, +, TMC Nov. 2012 1613-1626*
Measurement-Based Bandwidth Scavenging in Wireless Networks. *Plummer Jr., Anthony, +, TMC Jan. 2012 19-32*
Opportunistic Retransmission in WLANs. *Lu, Mei-Hsuan, +, TMC Dec. 2012 1953-1969*
Principal Component Localization in Indoor WLAN Environments. *Fang, Shih-Hau, +, TMC Jan. 2012 100-110*
RAM: Rate Adaptation in Mobile Environments. *Chen, Xi, +, TMC March 2012 464-477*
Received-Signal-Strength-Based Indoor Positioning Using Compressive Sensing. *Feng, Chen, +, TMC Dec. 2012 1983-1993*
Soft-TDMAC: A Software-Based 802.11 Overlay TDMA MAC with Microsecond Synchronization. *Djukic, Petar, +, TMC March 2012 478-491*
Structural Analysis of User Association Patterns in University Campus Wireless LANs. *Hsu, Wei-Jen, +, TMC Nov. 2012 1734-1748*
The Digital Marauder's Map: A WiFi Forensic Positioning Tool. *Fu, Xinwen, +, TMC March 2012 377-389*
Using Partially Overlapping Channels to Improve Throughput in Wireless Mesh Networks. *Ding, Yong, +, TMC Nov. 2012 1720-1733*

Wireless mesh networks
Hop-by-Hop Routing in Wireless Mesh Networks with Bandwidth Guarantees. *Hou, Ronghui, +, TMC Feb. 2012 264-277*
IMeX: Intergateway Cross-Layer Handoffs in Internet-Based Infrastructure Wireless Mesh Networks. *Zhao, Weiyi, +, TMC Oct. 2012 1585-1600*
Link Positions Matter: A Noncommutative Routing Metric for Wireless Mesh Networks. *Jakllari, Gentian, +, TMC Jan. 2012 61-72*
Resource-Aware Video Multicasting via Access Gateways in Wireless Mesh Networks. *Tu, Wanqing, +, TMC June 2012 881-895*
Using Partially Overlapping Channels to Improve Throughput in Wireless Mesh Networks. *Ding, Yong, +, TMC Nov. 2012 1720-1733*

Wireless networks
CapEst: A Measurement-Based Approach to Estimating Link Capacity in Wireless Networks. *Jindal, Apoorva, +, TMC Dec. 2012 2098-2108*
Dual Decomposition for Computational Optimization of Minimum-Power Shared Broadcast Tree in Wireless Networks. *Yuan, Di, +, TMC Dec. 2012 2008-2019*
Handover Incentives for Self-Interested WLANs with Overlapping Coverage. *Fafoutis, Xenofon, +, TMC Dec. 2012 2033-2046*

Modeling and Optimization of Medium Access in CSMA Wireless Networks with Topology Asymmetry. *Zhou, Anfu, +, TMC Sept. 2012 1559-1571*
Modeling and Performance Evaluation of Backoff Misbehaving Nodes in CSMA/CA Networks. *Lu, Zhuo, +, TMC Aug. 2012 1331-1344*
On the Throughput Capacity of Heterogeneous Wireless Networks. *Li, Pan, +, TMC Dec. 2012 2073-2086*
Side Channel: Bits over Interference. *Wu, Kaishun, +, TMC Aug. 2012 1317-1330*
Sum Rate Increase via Variable Interference Protection. *Sinanović, Sinan, +, TMC Dec. 2012 2121-2132*
Temporal Correlation of Interference in Wireless Networks with Rayleigh Block Fading. *Schilcher, Udo, +, TMC Dec. 2012 2109-2120*

Wireless sensor networks
A 6LoWPAN Sensor Node Mobility Scheme Based on Proxy Mobile IPv6. *Kim, Jinho, +, TMC Dec. 2012 2060-2072*
A Trigger Identification Service for Defending Reactive Jammers in WSN. *Xuan, Ying, +, TMC May 2012 793-806*
Adaptive In-Network Processing for Bandwidth and Energy Constrained Mission-Oriented Multihop Wireless Networks. *Eswaran, Sharanya, +, TMC Sept. 2012 1484-1498*
Channel Estimation for Opportunistic Spectrum Access: Uniform and Random Sensing. *Liang, Quanquan, +, TMC Aug. 2012 1304-1316*
Compressed-Sensing-Enabled Video Streaming for Wireless Multimedia Sensor Networks. *Pudlewski, Scott, +, TMC June 2012 1060-1072*
Controlled Mobility Sensor Networks for Target Tracking Using Ant Colony Optimization. *Mourad, Farah, +, TMC Aug. 2012 1261-1273*
Coverage Verification without Location Information. *Bejerano, Yigal, +, TMC April 2012 631-643*
Cross-Layer Optimization of Correlated Data Gathering in Wireless Sensor Networks. *He, Shibo, +, TMC Nov. 2012 1678-1691*
Distributed and Online Fair Resource Management in Video Surveillance Sensor Networks. *Durmus, Yunus, +, TMC May 2012 835-848*
Efficient Distributed Algorithms for Dynamic Access to Shared Multiuser Channels in SINR-Constrained Wireless Networks. *Kučera, Štěpán, +, TMC Dec. 2012 2087-2097*
Efficient Rendezvous Algorithms for Mobility-Enabled Wireless Sensor Networks. *Xing, Guoliang, +, TMC Jan. 2012 47-60*
Elevator-Assisted Sensor Data Collection for Structural Health Monitoring. *Zhang, Tao, +, TMC Oct. 2012 1555-1568*
Estimating Parameters of Multiple Heterogeneous Target Objects Using Composite Sensor Nodes. *Saito, Hiroshi, +, TMC Jan. 2012 125-138*
Fast Data Collection in Tree-Based Wireless Sensor Networks. *Durmaz Incel, Ozlem, +, TMC Jan. 2012 86-99*
Fast Release/Capture Sampling in Large-Scale Sensor Networks. *Peng, Shaoliang, +, TMC Aug. 2012 1274-1286*
Fault Localization Using Passive End-to-End Measurements and Sequential Testing for Wireless Sensor Networks. *Wang, Bing, +, TMC March 2012 439-452*
Guest Editorial: Special Section on Outstanding Papers from MobiCom 2011. *Nandagopal, Thyaga, +, TMC Sept. 2012 1425*
Handling Triple Hidden Terminal Problems for Multichannel MAC in Long-Delay Underwater Sensor Networks. *Zhou, Zhong, +, TMC Jan. 2012 139-154*
Local Construction of Spanners in the 3D Space. *Jenkins, Jonathan P., +, TMC July 2012 1140-1150*
Modeling and Performance Analysis for Duty-Cycled MAC Protocols with Applications to S-MAC and X-MAC. *Yang, Ou, +, TMC June 2012 905-921*
On Reliable Broadcast in Low Duty-Cycle Wireless Sensor Networks. *Wang, Feng, +, TMC May 2012 767-779*
Optimization-Based Distributed Algorithms for Mobile Data Gathering in Wireless Sensor Networks. *Zhao, Miao, +, TMC Oct. 2012 1464-1477*
Position and Movement Detection of Wireless Sensor Network Devices Relative to a Landmark Graph. *Li, Keyong, +, TMC Dec. 2012 1970-1982*
Protecting Location Privacy in Sensor Networks against a Global Eavesdropper. *Mehta, Kiran, +, TMC Feb. 2012 320-336*
Robust Relative Location Estimation in Wireless Sensor Networks with Inexact Position Problems. *Chiu, Wei-Yu, +, TMC June 2012 935-946*
Secure Initialization of Multiple Constrained Wireless Devices for an Unaided User. *Perkovic, Toni, +, TMC Feb. 2012 337-351*
Target Tracking in Wireless Sensor Networks Based on the Combination of KF and MLE Using Distance Measurements. *Wang, Xingbo, +, TMC April 2012 567-576*
The X Loss: Band-Mix Selection for Opportunistic Spectrum Accessing with Uncertain Spectrum Supply from Primary Service Providers. *Pan, Miao, +, TMC Dec. 2012 2133-2144*
Tight Performance Bounds of Multihop Fair Access for MAC Protocols in Wireless Sensor Networks and Underwater Sensor Networks. *Xiao, Yang, +, TMC Oct. 2012 1538-1554*
Two-Tiered Constrained Relay Node Placement in Wireless Sensor Networks: Computational Complexity and Efficient Approximations. *Yang, Dejun, +, TMC Aug. 2012 1399-1411*
Understanding Node Localizability of Wireless Ad Hoc and Sensor Networks. *Yang, Zheng, +, TMC Aug. 2012 1249-1260*
Using Rotatable and Directional (R&D) Sensors to Achieve Temporal Coverage of Objects and Its Surveillance Application. *Wang, You-Chiun, +, TMC Aug. 2012 1358-1371*

Wireless sensors
Guest Editorial: Special Section on Outstanding Papers from MobiCom 2011. *Nandagopal, Thyaga, +, TMC Sept. 2012 1425*

Z

Zigbee
Chip Error Pattern Analysis in IEEE 802.15.4. *Wu, Kaishun, +, TMC April 2012 543-552*
Risk-Aware Distributed Beacon Scheduling for Tree-Based ZigBee Wireless Networks. *Yen, Li-Hsing, +, TMC April 2012 692-703*

Miscellaneous

3G mobile communication
An MIMO Configuration Mode and MCS Level Selection Scheme by Fuzzy Q-Learning for HSPA$^+$ Systems. *Chung, Wen-Ching, +, TMC July 2012 1151-1162*
Exploiting Spatial, Frequency, and Multiuser Diversity in 3GPP LTE Cellular Networks. *Lee, Suk-Bok, +, TMC Nov. 2012 1652-1665*
Mobile Data Offloading through Opportunistic Communications and Social Participation. *Han, Bo, +, TMC May 2012 821-834*

4G mobile communication
Energy-Efficient Video Multicast in 4G Wireless Systems. *Yu, Ya-Ju, +, TMC Oct. 2012 1508-1522*