

# 2012 Index

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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.

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**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*

**Lee, 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, Yun-seok, 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, Qingqing, 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, Tshuan, 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*
- 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, Yaloui, 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*

## M

**Madhow, Upamanyu**, see Singh, Sumit, *TMC March 2012 367-376*

## 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*
- Pelechris, 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, Shrawan**, 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, Shrawan, *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**, Madhoo, 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, Thrasylvoulos**, *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*

- 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*
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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. *Kouk-oumidis, 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*

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#### 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*

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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**

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**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*

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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*

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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

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

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

#### Learning (artificial intelligence)

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

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#### 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*

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

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#### Long Term Evolution

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

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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*

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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*

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#### Message authentication

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

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

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

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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*

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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*

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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

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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. *Kouk-oumidis, 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*

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#### 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*

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

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

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

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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*

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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*

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

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

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WiMAX/OFDMA Burst Scheduling Algorithm to Maximize Scheduled Data. *Nusairat, Ashraf, +, TMC Nov. 2012 1692-1705*

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- 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*

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

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

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

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- 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*

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- Using Partially Overlapping Channels to Improve Throughput in Wireless Mesh Networks. *Ding, Yong, +, TMC Nov. 2012 1720-1733*

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

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- 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*
- ProSpec: 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. *Khabbaziyan, 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*

#### Radiolocation

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. *Kouk-oumidis, 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-Chium*, +, *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-Chium*, +, *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*

## T

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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*

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

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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. *Kouk-oumidis, 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. *Pelechris, 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-Chium, +, 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*