

Contents

Wireless Sensor Networks

Management of Surveillance Underwater Acoustic Networks	3
<i>Michel Barbeau, Zach Renaud, and Wenqian Wang</i>	
Relative Localization for Small Wireless Sensor Networks	15
<i>Yifeng Zhou and Franklin Wong</i>	
Performance Study of the IEEE 802.15.6 Slotted Aloha Mechanism with Power Control in a Multiuser Environment	27
<i>Luis Orozco-Barbosa</i>	
New Selection Strategies of Actor's Substitute in DARA for Connectivity Restoration in WSANs.	38
<i>Riadh Saada, Yoann Pigné, and Damien Olivier</i>	
Asymmetric Multi-way Ranging for Resource-Limited Nodes	50
<i>Erik H.A. Duisterwinkel, Niels A.H. Puts, and Heinrich J. Wörtche</i>	
Comparison of RPL Routing Metrics on Grids	64
<i>Lilia Lassouaoui, Stephane Rovedakis, Françoise Sailhan, and Anne Wei</i>	

UAV and Vehicular Networks

Communication and Coordination for Drone Networks	79
<i>Evşen Yanmaz, Markus Quaritsch, Saeed Yahyanejad, Bernhard Rinner, Hermann Hellwagner, and Christian Bettstetter</i>	
Intelligent Wireless Ad Hoc Routing Protocol and Controller for UAV Networks	92
<i>Abhinandan Ramaprasath, Anand Srinivasan, Chung-Horng Lung, and Marc St-Hilaire</i>	
Theoretical Analysis of Obstruction's Influence on Data Dissemination in Vehicular Networks	105
<i>Miao Hu, Zhangdui Zhong, Minming Ni, and Zhe Wang</i>	
Performance Analysis for Traffic-Aware Utility in Vehicular Ad Hoc Networks	117
<i>Zhe Wang, Zhangdui Zhong, Minming Ni, and Miao Hu</i>	

Investigation and Adaptation of Signal Propagation Models for a Mixed Outdoor-Indoor Scenario Using a Flying GSM Base Station	128
<i>Alina Rubina, Oleksandr Andryeyev, Mehdi Harounabadi, Ammar Al-Khani, Oleksandr Artemenko, and Andreas Mitschele-Thiel</i>	

Modelling and Analysis

Optimizing Power Allocation in Wireless Networks: Are the Implicit Constraints Really Redundant?	143
<i>Xiuhua Li and Victor C.M. Leung</i>	
Towards Dynamic Wireless Capacity Management for the Masses	155
<i>Aikaterini Vlachaki, Ioanis Nikolaidis, and Janelle J. Harms</i>	
Distance Distributions in Finite Ad Hoc Networks: Approaches, Applications, and Directions	167
<i>Fei Tong, Jianping Pan, and Ruonan Zhang</i>	
Towards More Realistic Network Simulations: Leveraging the System-Call Barrier	180
<i>Roman Naumann, Stefan Dietzel, and Björn Scheuermann</i>	
Resource Allocation for Relay-Aided Cooperative Hospital Wireless Networks	192
<i>Jingxian Liu, Ke Xiong, Yu Zhang, and Zhangdui Zhong</i>	
Improving the Performance of Challenged Networks with Controlled Mobility	205
<i>Laurent Reynaud and Isabelle Guérin-Lassous</i>	

Protocols

SDN Coordination for CCN and FC Content Dissemination in VANETs	221
<i>Ridha Soua, Eirini Kalogeiton, Gaetano Manzo, Joao M. Duarte, Maria Rita Palattella, Antonio Di Maio, Torsten Braun, Thomas Engel, Leandro A. Villas, and Gianluca A. Rizzo</i>	
A Bandwidth Adaptation Scheme for Cloud Radio Access Networks	234
<i>Yuh-Shyan Chen, Fang-Yu Liao, and Yi-Kuang Kan</i>	
Cooperative On-the-Fly Decision Making in Mobility-Controlled Multi Ferry Delay Tolerant Networks	246
<i>Mehdi Harounabadi, Alina Rubina, and Andreas Mitschele-Thiel</i>	
Multipath Routing Optimization with Interference Consideration in Wireless Ad hoc Network	258
<i>Junxiao He, Oliver Yang, Yifeng Zhou, and Omneya Issa</i>	

An Accurate Passive RFID Indoor Localization System Based on Sense-a-Tag and Zoning Algorithm.	270
<i>Majed Rostamian, Jing Wang, and Miodrag Bolić</i>	

Workshop on Practical ad hoc Network Security and Vulnerability

Communication Links Vulnerability Model for Cyber Security Mitigation . . .	285
<i>Eman Hammad, Abdallah Farraj, and Deepa Kundur</i>	
Entropy-Based Recommendation Trust Model for Machine to Machine Communications	297
<i>Saneeha Ahmed and Kemal Tepe</i>	
Secure Data Sharing for Vehicular Ad-hoc Networks Using Cloud Computing	306
<i>Mehdi Sookhak, F. Richard Yu, and Helen Tang</i>	
Distributed Collaborative Beamforming for Real-World WSN Applications . . .	316
<i>Slim Zaidi, Bouthaina Hmidet, and Sofiène Affes</i>	
A Gateway Prototype for Coalition Tactical MANETs.	330
<i>Mazda Salmanian, William Pase, J. David Brown, and Chris McKenzie</i>	
A Prototype Implementation of Continuous Authentication for Tactical Applications	342
<i>J. David Brown, William Pase, Chris McKenzie, Mazda Salmanian, and Helen Tang</i>	

Workshop on Convergence of Airborne Networking, Wireless Directional Communication Systems, and Software Defined Networking

On Delay Tolerant Airborne Network Design	357
<i>Shahrazad Shirazipourazad, Arun Das, and Arunabha Sen</i>	
Enabling Dynamic Reconfigurability of SDRs Using SDN Principles	369
<i>Prithviraj Shome, Jalil Modares, Nicholas Mastronarde, and Alex Sprintson</i>	
Reliability, Throughput and Latency Analysis of an Aerial Network	382
<i>Kamesh Namuduri and Amjad Soomro</i>	
Gender Assignment for Directional Full-Duplex FDD Nodes in a Multihop Wireless Network	390
<i>Moein Parsinia, Qidi Peng, Sanjukta Bhowmick, John D. Matyjas, and Sunil Kumar</i>	

A Massive MIMO Panel Array at Ka-Band with Flexible Patterns and Beam Steering Performance	402
<i>Satish K. Sharma and Sandhya Krishna</i>	
Author Index	415

Ad Hoc Networks

8th International Conference, ADHOCNETS 2016,
Ottawa, Canada, September 26-27, 2016, Revised
Selected Papers

Zhou, Y.; Kunz, Th. (Eds.)

2017, XIV, 416 p. 176 illus., Softcover

ISBN: 978-3-319-51203-7