

IEEE

INTERNET OF THINGS JOURNAL

A JOINT PUBLICATION OF THE IEEE SENSORS COUNCIL



THE IEEE COMMUNICATIONS SOCIETY



THE IEEE COMPUTER SOCIETY



THE IEEE SIGNAL PROCESSING SOCIETY



AUGUST 2016

VOLUME 3

NUMBER 4

IITJAU

(ISSN 2327-4662)

IEEE

INTERNET OF THINGS JOURNAL

A JOINT PUBLICATION OF THE IEEE SENSORS COUNCIL



THE IEEE COMMUNICATIONS SOCIETY



THE IEEE COMPUTER SOCIETY



THE IEEE SIGNAL PROCESSING SOCIETY



AUGUST 2016

VOLUME 3

NUMBER 4

IITJAU

(ISSN 2327-4662)

SPECIAL ISSUE ON LARGE-SCALE INTERNET OF THINGS

Guest Editorial	<i>S. Guo and J. Liu</i>	439
SPECIAL ISSUE PAPERS		
On Networking of Internet of Things: Explorations and Challenges	<i>H. Ma, L. Liu, A. Zhou, and D. Zhao</i>	441
Software-Defined Wireless Networking Opportunities and Challenges for Internet-of-Things: A Review	<i>K. Sood, S. Yu, and Y. Xiang</i>	453
A Comprehensive Review of Smart Energy Meters in Intelligent Energy Networks	<i>Q. Sun, H. Li, Z. Ma, C. Wang, J. Campillo, Q. Zhang, F. Wallin, and J. Guo</i>	464
Coding Schemes to Minimize Energy Consumption of Communication Links in Wireless Nanosensor Networks	<i>K. Chi, Y. Zhu, Y. Li, D. Zhang, and V. C. M. Leung</i>	480
Stand-Alone and Cooperative Deep Sleep for Battery-Driven Optical Network Unit	<i>H. Ujikawa, T. Yamada, K.-I. Suzuki, A. Otaka, H. Nishiyama, and N. Kato</i>	494
Localized Power Control for Multihop Large-Scale Internet of Things	<i>A. Bader and M.-S. Alouini</i>	503
RMER: Reliable and Energy-Efficient Data Collection for Large-Scale Wireless Sensor Networks ..	<i>M. Dong, K. Ota, and A. Liu</i>	511
Joint Clustering and Routing Design for Reliable and Efficient Data Collection in Large-Scale Wireless Sensor Networks	<i>Z. Xu, L. Chen, C. Chen, and X. Guan</i>	520
NDCMC: A Hybrid Data Collection Approach for Large-Scale WSNs Using Mobile Element and Hierarchical Clustering	<i>R. Zhang, J. Pan, D. Xie, and F. Wang</i>	533
Secure Object Tracking Protocol for the Internet of Things	<i>B. R. Ray, M. U. Chowdhury, and J. H. Abawajy</i>	544
A Real-Time Dynamic Pricing Algorithm for Smart Grid With Unstable Energy Providers and Malicious Users	<i>Q. Tang, K. Yang, D. Zhou, Y. Luo, and F. Yu</i>	554
Privacy-Preserving Location Proof for Securing Large-Scale Database-Driven Cognitive Radio Networks	<i>Y. Li, L. Zhou, H. Zhu, and L. Sun</i>	563
Learning Data Delivery Paths in QoI-Aware Information-Centric Sensor Networks	<i>G. T. Singh and F. M. Al-Turjman</i>	572
Dynamic Resource Discovery Based on Preference and Movement Pattern Similarity for Large-Scale Social Internet of Things	<i>Z. Li, R. Chen, L. Liu, and G. Min</i>	581
A Feature-Scaling-Based k -Nearest Neighbor Algorithm for Indoor Positioning Systems	<i>D. Li, B. Zhang, and C. Li</i>	590
Request Dependency Graph: A Model for Web Usage Mining in Large-Scale Web of Things	<i>J. Liu, C. Fang, and N. Ansari</i>	598
Engineering Machine-to-Machine Traffic in 5G	<i>X. Li, J. B. Rao, and H. Zhang</i>	609
Statistical QoS Control of Network Coded Multipath Routing in Large Cognitive Machine-to-Machine Networks	<i>S.-C. Lin and K.-C. Chen</i>	619
ScriptIoT: A Script Framework for and Internet-of-Things Applications	<i>H.-C. Hsieh, K.-D. Chang, L.-F. Wang, J.-L. Chen, and H.-C. Chao</i>	628