



MLICOM

3rd EAI International Conference on
**MACHINE LEARNING AND INTELLIGENT
COMMUNICATIONS**

JULY 6–8, 2018 | HANGZHOU, CHINA

Welcome to MLICOM 2018 by the General Conference Chairs

On behalf of the Conference Organizing Committee, it is my great pleasure and honor to welcome you to this exciting and elegant event, 2018 EAI International Conference on Machine Learning and Intelligent Communications (MLICOM 2018).

MLICOM 2018 would be impossible without the dedication and hard work of the technical committee members, organization team members, and the student volunteers. In addition, MLICOM 2018 obtains the support from College of Information Engineering, Zhejiang University of Technology and College of Information Engineering, China Jiliang University. We would like to thank all teachers and students for their hard working for this conference. We believe that this conference will grow to be the premier platform for exchange of ideas and sharing of best practices among the practitioners and researchers in this part of the world.

Established in 1953, Zhejiang University of Technology (ZJUT) is developing fast and has become one of the top universities in Zhejiang province. Since 2003, the province government had founded two key laboratories, i.e., Zhejiang provincial key laboratory of communication networks and applications and Zhejiang provincial united key laboratory of embedded systems. Now both the two laboratories are ready to welcome scholars and researchers from all over the world.

In this year MLICOM, we invite four world-class researchers from Canada, Japan, and China to give us the wonderful keynote talks. Meanwhile, we organize 12 technical sessions in which the authors from the world will present their high-quality work. We believe that MLICOM 2018 will be a great success.

It is our sincere hope that all our friends and colleagues have an unforgettable and significant experience at the conference, as well as enjoy the time in Hangzhou, China. Moreover, we must thank for the funding support and help from the two provincial key laboratories, the Control Science and Engineering Discipline (Zhejiang First-Class (Class A) Discipline), ZJUT and the Information and Communication Engineering Discipline, ZJUT, the Information and Communication Engineering Discipline, China Jiliang University, Zhejiang Institute of Communications, and Hangzhou Institute of Electronics.

Enjoy your trip to Hangzhou. Enjoy your trip to MLICOM 2018!

Professor Limin Meng
Zhejiang University of Technology, China
Dean of Zhejiang Provincial Key Laboratory of Communication Networks and Applications
MLICOM 2018 Conference General Chair

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XUEMIN (SHERMAN) SHEN

Xuemin (Sherman) Shen (IEEE M'97-SM'02-F09) received the B.Sc.(1982) degree from Dalian Maritime University (China) and the M.Sc. (1987) and Ph.D. degrees (1990) from Rutgers University, New Jersey (USA), all in electrical engineering. He is a Professor and University Research Chair, Department of Electrical and Computer Engineering, University of Waterloo, Canada. He is also the Associate Chair for Graduate Studies. Dr. Shen's research focuses on resource management in interconnected wireless/wired networks, wireless network security, social networks, smart grid, and vehicular ad hoc and sensor networks. He is an elected member of IEEE ComSoc Board of Governor, and the Chair of Distinguished Lecturers Selection Committee. Dr. Shen served as the Technical Program Committee Chair/Co-Chair for IEEE Globecom'16, Infocom'14, IEEE VTC'10 Fall, and Globecom'07, the Symposia Chair for IEEE ICC'10, the Tutorial Chair for IEEE VTC'11 Spring and IEEE ICC'08, the General Co-Chair for ACM Mobihoc'15, Chinacom'07 and QShine'06, the Chair for IEEE Communications Society Technical Committee on Wireless Communications, and P2P Communications and Networking. He also serves/served as the Editor-in-Chief for IEEE Network, Peer-to-Peer Networking and Application, and IET Communications; an Associate Editor-in-Chief for IEEE Internet of Things Journal, a Founding Area Editor for IEEE Transactions on Wireless Communications; an Associate Editor for IEEE Transactions on Vehicular Technology, Computer Networks, and ACM/Wireless Networks, etc.; and the Guest Editor for IEEE JSAC, IEEE Wireless Communications, IEEE Communications Magazine, and ACM Mobile Networks and Applications, etc. Dr. Shen received the Excellent Graduate Supervision Award in 2006, and the Outstanding Performance Award in 2004, 2007, 2010, and 2014 from the University of Waterloo, the Premier's Research Excellence Award (PREA) in 2003 from the Province of Ontario, Canada, and the Distinguished Performance Award in 2002 and 2007 from the Faculty of Engineering, University of Waterloo. Dr. Shen is a registered Professional Engineer of Ontario, Canada, an IEEE Fellow, an Engineering Institute of Canada Fellow, a Canadian Academy of Engineering Fellow, a Royal Society of Canada Fellow, and a Distinguished Lecturer of IEEE Vehicular Technology Society and Communications Society.



NEI KATO

Nei Kato is a full professor and the Director of Research Organization of Electrical Communication (ROEC), Tohoku University, Japan. He has been engaged in research on computer networking, wireless mobile communications, satellite communications, ad hoc & sensor & mesh networks, smart grid, IoT, Big Data, and pattern recognition. He has published more than 400 papers in prestigious peer-reviewed journals and conferences. He is the Vice-President (Member & Global Activities) of IEEE Communications Society (2018-2019), the Editor-in-Chief of IEEE Transactions on Vehicular Technology (2017-), the Editor-in-Chief of IEEE Network Magazine (2015-2017), and the Chair of IEEE Communications Society Sendai Chapter. He served as a Member-at-Large on the Board of Governors, IEEE Communications Society (2014-2016), a Vice Chair of Fellow Committee of IEEE Computer Society(2016), and IEEE Communications Society Award Committee (2015-2017). He has also served as the Chair of Satellite and Space Communications Technical Committee (2010-2012) and Ad Hoc & Sensor Networks Technical Committee (2014-2015) of IEEE Communications Society. His awards include Minoru Ishida Foundation Research Encouragement Prize (2003), Distinguished Contributions to Satellite Communications Award from the IEEE Communications Society, Satellite and Space Communications Technical Committee (2005), the FUNAI information Science Award (2007), the TELCOM System Technology Award from Foundation for Electrical Communications Diffusion (2008), the IEICE Network System Research Award (2009), the IEICE Satellite Communications Research Award (2011), the KDDI Foundation Excellent Research Award (2012), IEICE Communications Society Distinguished Service Award (2012), IEICE Communications Society Best Paper Award (2012), Distinguished Contributions to Disaster-resilient Networks R&D Award from Ministry of Internal Affairs and Communications, Japan (2014), Outstanding Service and Leadership Recognition Award 2016 from IEEE Communications Society Ad Hoc & Sensor Networks Technical Committee, Radio Achievements Award from Ministry of Internal Affairs and Communications, Japan (2016), IEEE Communications Society Asia-Pacific Outstanding Paper Award (2017) and Best Paper Awards from IEEE ICC/GLOBECOM/WCNC/VTC. Nei Kato is a Distinguished Lecturer of IEEE Communications Society and Vehicular Technology Society. He is a fellow of IEEE and IEICE.



QINYU ZHANG

Qinyu Zhang (SM'13) received the Bachelor's degree in communication engineering from Harbin Institute of Technology (HIT) in 1994, and the Ph.D. degree in Electrical and Electronics Engineering from the University of Tokushima, Tokushima, Japan, in 2003. From 1999 to 2003, he was an Assistant Professor at the University of Tokushima. From 2003 to 2005, he was an Associate Professor in the Shenzhen Graduate School, HIT, and was the Founding Director of the Communication Engineering Research Center with the School of Electronic and Information Engineering. Since 2005, he has been a Full Professor, and serves as the Dean in the School of Electrical and Information Engineering. He is on the Editorial Board of some academic journals, such as the Journal on Communications, KSII Transactions on Internet and Information Systems, and Science China: Information Sciences. He was the TPC Co-Chair of the IEEE/CIC ICC'15, the Symposium Co-Chair of the IEEE VTC'16 Spring, an Associate Chair for Finance of ICMMT'12, and the Symposium Co-Chair of CHINACOM'11. He has been a TPC Member for INFOCOM, ICC, GLOBECOM, WCNC, and other flagship conferences in communications. He was the Founding Chair of the IEEE Communications Society Shenzhen Chapter. His research interests include aerospace communications and networks, wireless communications and networks, cognitive radios, signal processing, and biomedical engineering. Dr. Zhang has received the National Science Fund for Distinguished Young Scholars, the Young and Middle-Aged Leading Scientist of China, and the Chinese New Century Excellent Talents in University, and obtained three scientific and technological awards from governments.



LIPING QIAN

Liping Qian (senior member of IEEE) received the PhD degree in Information Engineering from the Chinese University of Hong Kong, Hong Kong, in 2010. Since Aug. 2011, she has been with the Department of Information Engineering, Zhejiang University of Technology, where she is currently a Professor. From 2010 to 2011, she was a Post-Doctoral Research Assistant with the Department of Information Engineering, The Chinese University of Hong Kong. She was a Visiting Student with Princeton University in 2009. From 2016 to 2017, she was a visiting scholar with Broadband Communications Research (BBCR) group at the University of Waterloo. Her research interests include wireless communication and networking, resource management in wireless networks, massive IoTs, mobile edge computing, emerging multiple access techniques, and machine learning oriented towards wireless communications. She was a co-recipient of the IEEE Marconi Prize Paper Award in wireless communications in 2011, the Second-class Outstanding Research Award for Zhejiang Provincial Universities, China, in 2012, the Second-class Award of Science and Technology given by Zhejiang Provincial Government in 2015, and the Best Paper Award from ICC2016. She received Zhejiang Provincial Natural Science Foundation for Distinguished Young Scholars in 2015. She is currently an Associate Editor for the IET Communications, and a Guest Editor of Mobile Networks and Applications.

July 6 12:00 to 20:00	Registration 大会注册 18:00 Buffet Dinner 自助晚餐, 夏威夷厅	
July 7 7:00 to 13:00	Registration 大会注册	
July 7 8:00-11:30 Liren Hall (立人厅)	8:00-8:15	Welcome and Opening Remarks by President of Zhejiang University of Technology
	8:15-8:30	Welcome Message by General Chair: Professor Limin Meng
	8:30-9:00	大会集体照
	9:00-9:40	“Automated Driving and Connected Vehicles” by Professor Xuemin (Sherman) Shen, University of Waterloo, Canada
	9:40-9:50	Coffee Break
	9:50-10:30	“On Removing Routing Protocol from Future Wireless Networks: A Real-time Deep Learning Approach for Intelligent Traffic Control” by Professor Nei Kato, Tohoku University, Japan
	10:30-11:10	“Network Protocols for Future Deep Space Exploration” by Professor Qinyu Zhang, Harbin Institute of Technology (Shenzhen), Guangdong, China
	11:10-11:50	“Non-Orthogonal Multiple Access in Small-cell Networks” by Professor Liping Qian, Zhejiang University of Technology
12:00-14:00	Lunch Buffet	

Session 1 , 14:00-15:30, Lixing Hall , Session Chair: Dr. Ye Liang

Time	Title of the contribution	Author
14:00-14:15	A novel spectrum allocation scheme in femtocell networks using improved graph theory	Feng Li, Lili Yang, Jiangxin Zhang
14:15-14:30	Physical Violence Detection with Movement Sensors	Liang Ye, Le Wang, Peng Wang, Hany Ferdinando, Tapio Seppänen, Esko Alasaarela
14:30-14:45	Distributed Channel Allocation for Wireless Mesh Networks Based on Hypergraph Interference Model	ChenPan, Yunpeng Cheng, Ducheng Wu, Lei Zhao, Yuli Zhang
14:45-15:00	Joint Resource Allocation for Wireless Energy Harvesting Based on DF Relaying	Tian Nan, Weidang Lu, Zhijiang Xu
15:00-15:15	Optimization in Cognitive Radio Networks with SWIPT-Based DF Relay	Jie Zhang, Weidang Lu, Zhijiang Xu, Hong Peng, Xin Liu
15:15-15:30	Real-Valued Orthogonal Sequences for Ultra-Low Overhead Channel Estimation in MIMO-FBMC Systems	Su Hu, Jing Zhang, Wanbing Tang, Zilong liu, Pei Xiao,
15: 30-16:00	Coffee Break	

Session 2 14:00-15:30, Liyan Hall Session Chair: Dr. Bi Suzhi

Time	Title of the contribution	Author
14:00-14:15	A Network Coding Optimization Algorithm for Reducing Encoding Nodes	Limin Meng, Yangtianxiu Hu
14:15-14:30	Backscatter-assisted Relaying in Wireless Powered Communications Network	Yuan Zheng, Suzhi Bi, Xiaohui Lin
14:30-14:45	Reusing Wireless Power Transfer for Backscatter-assisted Cooperation in WPCN	Wanran Xu, Suzhi Bi, Xiaohui Lin, Juan Wang
14:45-15:00	Energy-efficient Power Allocation Scheme Based on Discrete-rate Adaptive Modulation in Distributed Antenna System	Xi Wang, Xiangbin Yu, Teng Tao, Guangying Wang
15:00-15:15	A method of balanced sleep scheduling in Renewable Wireless Sensor Networks	Song Maohan, Lu Weidang, Peng Hong, Xu Zhijiang, Hua Jingyu
15:15-15:30	Joint Optimization of Power and Bandwidth in the Downlink of 5G Cellular Systems	Xiaoding Wang
15:30-16:00	Coffee Break	

Session 3 , 14:00-15:30, Lizhi Hall , Session Chair: Dr. Na Zhenyu

Time	Title of the contribution	Author
14:00-14:15	Rateless Coded Downlink Transmission in Cloud Radio Access Network	Hong Peng, Yefan Zhang, Yu Zhang, Lingjie Xie, Limin Meng
14:15-14:30	Uplink Transmission Scheme Based on Rateless Coding in Cloud-RAN	Lingjie Xie, Yu Zhang, Yefan Zhang, Jingyu Hua, Limin Meng
14:30-14:45	Fast Inter Prediction Mode Decision Algorithm Based On Data Mining	Tengrui Shi, Xiaobo Guo,
14:45-15:00	An Improved Constrained Least Squares Localization Algorithm in NLOS Propagating Environment	Yeja Yin, Jingyu Hua, Fangni Chen, Weidang Lu, Dongming Wang, Jiamin Li
15: 00-15: 15	A Novel Approach of Semi-Blind Frequency Selecting for HF Regional Emergency Maneuver Communication	Daihui Mo, Guojun Li, Xiaofei Xu, Lu Tan, Yakun Xing
15: 15-15: 30	Channel Estimation in Next Generation LEO Satellite Communication Systems	Zheng Pan, Zhenyu Na,
15: 30-16: 00	Coffee Break	

Session 4 16:00-17:30, Lixing Hall ,Session Chair: Dr. Zhao Nan

Time	Title of the contribution	Author
16: 00-16: 15	Optimal Power Splitting of Cognitive Radio Networks with SWIPT-enabled Relay	Yuanrong Lin Weidang Lu, Hong Peng Jingyu Hua
16: 15-16: 30	Pedestrian Walking Model for Floor Plan Building Based on Crowdsourcing PDR Data	Guangda Yang, Yongliang Zhang, Lin Ma Leqi Tang
16: 30-16: 45	Research on the Contextual Information in Scene Classification	Pan Feng, Danyang Qin,
16: 45-17: 00	Manifold Alignment-based Radio Map Construction in Indoor Localization	Ping Ji, Danyang Qin,
17: 00-17: 15	Weight Matrix Analysis Algorithm for WLAN Indoor Positioning System	Lin Ma, Jian Li, Yubin Xu

Session 5 , 16:00-17:30, Liyan Hall , Session Chair: Dr. Zhang Yu

Time	Title of the contribution	Author
16:00-16:15	Dynamic Network Access for Multi-UAV Networks: A Cloud-assisted Learning Algorithm	Xiaodu liu
16:15-16:30	Secrecy Performance Analysis of SWIPT System Based on OFDM Assisted Interference	Mei Qin, Weidang Lu
16:30-16:45	OFDM based SWIPT in a two-way relaying network	Weilin Zhao, Weidang Lu, Hong Peng, Zhijiang Xu Jingyu Hua
16:45-17:00	Dynamic Opportunistic Spectrum Access with Channel Bonding in Mesh Networks: A Game-theoretic Approach	Chen Pan, Yunpeng Cheng Yuli Zhang
17:00-17:15	Probability-based Routing Symmetry Metrics	Qin Wang, Fang Dong Xinli Yang, Rui Yin
17:15-17:30	Contract Theory Based on Wireless Energy Harvesting with Transmission Performance Optimization	Liu chen, Peng Hong Lu Weidang, Xu Zhijiang, Hua Jingyu
18: 30	Conference Banquet (立人厅)	

Session 6 , 16:00-17:30, Lizhi Hall , Session Chair: Dr. Li Bo

Time	Title of the contribution	Author
16:00-16:15	Resource Allocation Based Simultaneous Wireless Information and Power Transfer for Multiuser OFDM Systems	Shanzhen Fang, Weidang Lu, Hong Peng, Zhijiang Xu, Jingyu Hua
16:15-16:30	Optimize Bundle Size in Satellite DTN Links with Markov Method	Si Peiyuan, Lu Weidang
16:30-16:45	A Dual SIS Epidemic Model for Virus Spread Analysis in Cluster-based Wireless Sensor Networks	Shensheng Tang
16:45-17:00	The Design of Inter-satellite Link Topology Based on Time-slot Allocation Technology	Siqi Li,Bingbing Zhang, Wenjing Kang, Bo Li,
17:00-17:15	Designing of Environmental Information Acquisition and Reconstruction System Based on Compressed Sensing	Qiuming Zhao, Bo Li Hongjuan Yang. Gongliang Liu, Ruofei Ma
18: 30	Conference Banquet (立人厅)	

Session 7, 8:30-10:00, Lixing Hall , Session Chair: Dr. Wang Jian

Time	Title of the contribution	Author
8:30-8:45	Study of radar target range profile recognition algorithm based on optimized neural network	Xiaokang Guo, Tao Jian Yunlong Dong, Xiaolong Chen
8:45-9:00	A SAR Image Fast Stitching Algorithm based on Machine Learning	Hongyuan Yao, Haipeng Wang,
9:00-9:15	MOPSO optimized Radar CBMeMber forward-backward smoothing filter	Jiazheng Pei,
9:15-9:30	Performance Evaluation of Ad-hoc Routing Protocols in Hybrid MANET-Satellite Network	Xiaoye Xie, Jian Wang, Xiaobo Guo
9:30-9:45	B2DASH: Bandwidth and Buffer-based Dynamic Adaptive Streaming over HTTP	Peihan Du, Jian Wang,
10:00-10:30	Coffee Break	

Session 8 , 8:30-10:00, Liyan Hall , Session Chair: Dr. Lu Weidang

Time	Title of the contribution	Author
8: 30-8:45	An Efficient Method for Estimating Time Series Motif Length Using Sequitur Algorithm	Phien Nguyen Ngoc
8:45-9:00	An Improved Quadratic Programming LLOP Algorithm for Wireless Localization	Guangzhe Liu, Jingyu Hua, Feng Li, Weidang Lu,
9:00-9:15	Particle Swarm Optimization Based Location Recommendation for D2D Communication Underlying LTE Cellular Networks	Chiapin Wang, Ming-Hsun Wu,
9:15-9:30	Technologies and Applications of Narrow-band Internet of Things	Chen jia, Shi Jiajun, Chen Xiangxu, Wu Yuan, Qian Liping, Huang Liang
9: 30-9:45	ZigBee-Based Device-Free Wireless Localization in Internet of Things	Yongliang Sun, Xiaocheng Wang, Xuzhao Zhang,
10: 00-10: 30	Coffee Break	

Session 9 , 8:30-10:00, Lizhi Hall , Session Chair: Dr.Liu Xin

Time	Title of the contribution	Author
8:30-8:45	Improved RSA Localization based on the Lagrange Multiplier Optimization	Jiafei Fu, Jingyu Hua, Zhijiang Xu,
8:45-9:00	Detecting Digital Photo Tampering with Deep Learning	Frank Liu, Mitchell Singleton
9:00-9:15	Detecting Phishing Websites with Random Forest	Frank Liu, Zhaohe Zhang,
9:15-9:30	Optimal User Grouping and Resource Allocation for Downlink Non-Orthogonal Multiple Access Systems	Xiaoding Wang
9:30-9:45	Communication-Efficient Decentralized Cooperative Data Analytics in Sensor Networks	Liang Zhao, Zhihua Li, Shujie Guo
9:45-10:00	Joint Time and Power Allocations for Uplink Nonorthogonal Multiple Access Networks	Yuan Wu, Cheng Zhang, Kejie Ni, Jiajun Shi, Liping Qian, Liang Huang,
10: 00-10:30	Coffee Break	

Session 10 , 10:30-12:00, Lixing Hall , Session Chair: Dr. Huang Liang

Time	Title of the contribution	Author
10:30-10:45	Speed Prediction of High Speed Mobile Vehicle Based on Extended Kalman Filter in RFID System	Yupin Huang, Liping Qian, Anqi Feng
10:45-11:00	A research on the identification of internet user based on deep learning	LiuJun Tang, Ligang Dong, Xian Jiang, Weiming Wang
11:00-11:15	Mobility Prediction Based on POI-Clustered Data	Haoyuan Chen, Yali Fan,
11:15-11:30	RFID Data-Driven Vehicle Speed Prediction using Adaptive Kalman Filter	Anqi Feng, Liping Qian Yupin Huang
11:30-11:45	Deep Reinforcement Learning-based Task Offloading and Resource Allocation for Mobile Edge Computing	Liang Huang, Xu Feng, Liping Qian, Yuan Wu
12: 00	Buffet Lunch (夏威夷厅)	

Session 11 , 10:30-12:00, Liyan Hall , Session Chair: Dr. Zhou Mu

Time	Title of the contribution	Author
10:30-10:45	Gun Identification Using Tensorflow	Qingzhong Liu, Mitchell Singleton, Benjamin Taylor, Jacob Taylor
10:45-11:00	Probabilistic Sorting Memory Constrained Tree Search Algorithm for MIMO System	Xiaoping Jin
11:00-11:15	A research of network applications classification based on deep learning	LiuJun Tang, Ligang Dong, Xian Jiang, Weiming Wang
11:15-11:30	Real-time Drone Detection using Deep Learning Approach	Manjia Wu, Weige Xie, Xiufang Shi, Panyu Shao, Zhiguo Shi
11:30 - 11:45	Highly-available Localization Techniques in Indoor Wi-Fi Environment: A Comprehensive Survey	Zhou Mu Bulgantamir Oyungerel Wang Yanmeng
11:45 - 12:00	WiFi/PDR Integrated System for 3D Indoor Localization	Zhou Mu Dolgov Maxim Liu Yiyao Wang Yanmeng
12: 00	Buffet Lunch (夏威夷厅)	

Session 12, 10:30-12:00, Lizhi Hall , Session Chair: Dr. Wu Yuan

Time	Title of the contribution	Author
10:30-10:45	Variable Tap-Length Blind Equalization for Underwater Acoustic Communication	Zhiyong Liu, Yinyin Wang,
10:45-11: 00	Smartphone Application Identification by	Shuang Zhao, Shuhui Chen
11:00-11: 15	Random Sequence Generation Algorithm for Multi - Chaotic Systems	Chen Xiaodi
11:15-11:30	VulAware: Towards Massive-Scale Vulnerability Detection in Cyberspace	Zhiqiang Wang, Pingchuan Ma, Ruming Wang, Shichun Gao, Xuying Zhao, Tao Yang
11:30-11:45	Joint D2D Cooperative Relaying and Friendly Jamming Selection for Physical Layer Securi-	Yijie Luo, Jinlong Wang, Yang Yang
12: 00	Buffet Lunch (夏威夷厅)	

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Jing Xu, Zhejiang University, China

Intelligent Radar Signal Processing

Yujie Gu, Temple University, The United States
Weijie Xia, Nanjing University of Aeronautics and Astronautics, China
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Thank you for participating at EAI conference and

We hope to see you again!