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SPECIAL ISSUE ON
Machine Learning and Intelligent Communications
(MLICOM 2017)

Overview:

Along with the fast developing of modern communication and signal processing technologies, the amount of high quality wireless services is required and increasing exponentially. According to the prediction of Cisco VNI Mobile Forecast 2016, Global mobile data traffic will increase nearly eightfold between 2015 and 2020, and mobile network connection speeds will increase more than threefold by 2020. Hence, there are still big gap between the future requirements and current communications, networking, and signal processing technologies. In this view, we are aiming to discuss the potential advantages of adopting some intelligent algorithms into the next generation communication systems. As an emerging discipline, machine learning is a subfield of computer science that evolved from the study of pattern recognition and computational learning theory in artificial intelligence, and explores the study and construction of algorithms that can learn from and make predictions on complicated scenarios. We hope the integrating of machine learning algorithms and other intelligent algorithms into communication systems will improve the quality of service and make the systems smart, intelligent, and efficient. We invite high quality original research papers describing recent and expected challenges or discoveries along with potential intelligent solutions for future wireless communications and networks. Both original, unpublished contributions and survey/tutorial types of articles are encouraged.

Topics

Topics of interest include, but are not limited to, the following scope:

- Machine learning	- Intelligent positioning and navigation
- Intelligent Multimedia Processing and Security	- Intelligent Wireless Networks and Security
- Cognitive Radio and Intelligent Networking	- Intelligent Internet of Things
- Intelligent Satellite Communications	- Intelligent Image Processing
- Green Communications	- Intelligent Ad-hoc Sensor Networks
- Resource Allocation in Wireless and Cloud Networks	- Intelligent Radar Signal Processing
- Network Coding and Cooperative Communications	- Advanced Signal Processing

Important Dates

- **Manuscript submission deadline: July 1, 2017**
- **Notification of acceptance: August 15, 2017**
- **Submission of final revised paper: September 15, 2017**
- **Publication of special issue (tentative): Winter, 2017**

Submission Procedure

Authors should follow the MONET Journal manuscript format described at the journal site. Manuscripts should be submitted on-line through <http://www.editorialmanager.com/mone/>. A copy of the manuscript should also be emailed to the Guest Editors at the following email address(es) : guxuemail@hit.edu.cn

Guest Editors:

Prof. Xuemai Gu, Harbin Institute of Technology, China



Xuemai Gu received B.E., M.E., and Ph.D. degrees in communication engineering from Harbin Institute of Technology, Harbin, China, in 1982, 1985, and 1991, respectively. He is a Professor with the Communication Research Center, Harbin Institute of Technology. He is the Dean of School of Graduate Student. He is the inventor of more than 20 China patents and has authored over 150 research papers and 5 books. His research interests include wireless networks and transmissions, private wireless communication systems, and satellite communications. He is (or was) PI, Co-PI or project leader in several projects sponsored by NSF of China, NSF of Heilongjiang, et al. He serves/served as the General Chair/Co-Chair around 10 international conferences and Editor/Guest Editor around 20 international journals/special issues of journals. He has won twice Second Prize of National Science and Technology Progress Award of China and 3/4 times First/Second Prize of Provincial Science and Technology Progress Award of Heilongjiang. He is currently serving as one of the general chairs of MLICOM 2017.

Dr. Chunsheng Zhu, University of British Columbia, Canada



Chunsheng Zhu received the Ph.D. Degree in Electrical and Computer Engineering from The University of British Columbia, Canada. He is currently a Postdoctoral Research Fellow in the Department of Electrical and Computer Engineering at The University of British Columbia in Canada. He was a visiting scholar in the Department of Information Technology at Uppsala University in Sweden, from July 2015 to August 2015. His current research interests mainly include wireless sensor networks, cloud computing, Internet of Things, social networks, big data, and security. He has authored more than 100 publications accepted or published by refereed international journals (e.g., IEEE Transactions on Industrial Electronics, IEEE Transactions on Computers, IEEE Transactions on Information Forensics and Security, IEEE Transactions on Emerging Topics in Computing, IEEE Transactions on Cloud Computing, ACM Transactions on Embedded Computing, IEEE Systems Journal, IEEE Access), magazines (e.g., IEEE Wireless Communications Magazine, IEEE Communications Magazine, IEEE Network Magazine), and conferences (e.g., IEEE INFOCOM, IEEE IECON, IEEE SECON, IEEE DCOSS, IEEE ICC, IEEE

GLOBECOM, IEEE HPCC, IEEE CloudCom, ICCCN). One of his papers was nominated by IEEE Industrial Electronics Society Technology News (IE Tech News). He is an Editor of EAI Endorsed Transactions on Industrial Networks and Intelligent Systems. He is also a Guest Editor of IEEE Access special issue on "Convergence of Sensor Networks, Cloud Computing, and Big Data in Industrial Internet of Things", Sensors special issue on "Smart Industrial Wireless Sensor Networks", Mobile Networks and Applications (MONET) special issue on "Wireless Communications and Networks for Smart Cities", and MONET special issue on "Collaborative Next Generation Networking". He serves/served as the Program co-chair/Track co-chair/Symposium co-chair/Special Session co-chair/Workshop co-chair/Publicity co-chair/Local co-chair of around 30 international conferences and the Co-chair/Program co-chair of around 5 international workshops. He was a reviewer of around 50 international journals/magazines and around 50 international conferences/workshops. He was awarded the Outstanding Service Awards from iThings/CPSCoM/SmartData/GreenCom 2016, IEEE CloudCom 2015, and HPCC/UIC/ATC/FTDCS 2011. He is a recipient of the 2016 IEEE TCSC Outstanding Ph.D. Dissertation Award.



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