

Yuehua Wang

Research Interests

Cyber-physical systems, Internet of things, software-defined networks, ubiquitous and mobile computing, autonomous driving, vehicular sensing and control, vehicle communication systems, resource virtualization, wireless and mobile networks, and distributed networks & systems

Education

- 2006-2013 **Ph.D.**, *Computer Science*, Beihang University, China.
- 2003-2006 **M.S.**, *Signal and Information Processing*, North University of China, China.
- 1999-2003 **B.S.**, *Electron Information Engineering*, North University of China, China.

Professional Experience

- 2016-present **Assistant Professor**, *Computer Science & Info Systems*, TAMUC, TX.
- 2015-2016 **Lecturer**, *Computer Science*, Wayne State University, MI.

Teaching

- Spring 17/
Summer I 17 **CSCI 559 Software development for Mobile Devices**, TAMUC.
- Spring 17/
F16 **CSCI 431 Java Programming Language**, TAMUC.
- Fall 2016 **CSCI 531 Advanced Programing with Java**, TAMUC.
- W16/F15 **CSC 5750 Principles of Web Technology**, Wayne State University.
- W16/F15 **CSC 2110 Computer Science I**, Wayne State University.
- Winter 2016 **CSC 1500 Fundamental Structures in Computer Sci.**, Wayne State University.
- Fall 2015 **CSC 4290 Introduction to Computer Networking**, Wayne State University.

Publications

Book Chapter

- 2017 Urcun John Tanik, **Yuehua Wang**, Serkan Güldal , “Swarm Intelligence Applied to Big Data Analytics for Rescue Operations with RASEN Sensor Networks ”, *Big Data and Visual Analytics*, Springer
- 2016 Hongwei Zhang, Le Yi Wang, George Yin, Shengbo Eben Li, Keqiang Li, Jing Hua, **Yuehua Wang**, Chuan Li, Hai Jin, “Trustworthy Foundation for CAVs in an Uncertain World: From Wireless Networking, Sensing, and Control to Software-Defined Infrastructure”, *Road Vehicle Automation*, Springer

Research Articles

- 2016 Abhimanyu Gosain, Mark Berman, Marshall Brinn, Thomas Mitchell, Chuan Li, **Yuehua Wang**, Hai Jin, Jing Hua, Hongwei Zhang, Enabling Campus Edge Computing using GENI Racks and Mobile Resources. *IEEE/ACM Symposium on Edge Computing (SEC)*.
- 2016 **Yuehua Wang**, Yu Chen, Hongwei Zhang, Jayanthi Rao, TJ Giuli, Patrick Gossman, Xiangying Yang, Jing Zhu. VInsight: Enabling Open Innovations in Networked Vehicle Sensing and Control. *IEEE Network*.
- 2013 **Yuehua Wang**, Zhong Zhou, Ling Liu, Wei Wu. Replica-aided Load Balancing in Overlay Networks with Pervasive Applications. *Journal of Network and Computer Applications (JNCA)*, 36(1): 388-401,2013 (SCIE,DOI:10.1016/j.jnca.2012.05.001)(SCI)
- 2012 **Yuehua Wang**, Ling Liu, Calton Pu. Scaling Group Communication Services with Self-adaptive and Utility-driven Message Routing. *ACM Springer Mobile Networks and Applications (MONET)*, 2012, 17(4): 543-563. (SCI)
- 2012 **Yuehua Wang**, Zhong Zhou, Ling Liu, Wei Wu. Fault Tolerance and Recovery for Group Communication Services in Distributed Networks. *Journal of Computer Science and Technology (JCST)*, 2012, 2: 298-312.
- 2012 **Yuehua Wang**, Zhong Zhou, Ling Liu, Liang Cheng, Wei Wu. Topological Similarity-based Scheme for Large-scale Group Communication Services. *In Proceedings of 21st International Conference on Computer Communications and Networks (ICCCN12)*, July 30- August 2, 2012, Munich, Germany.
- 2011 **Yuehua Wang**, Zhong Zhou, Ling Liu, Wei Wu. An Efficient Location-Aware Replication Scheme for Reliable Group Communication Applications. *In Proceedings of the Tenth International Conference on Networks (ICN 2011)*, January 23-28, 2011, St. Maarten, The Netherlands Antilles.
- 2010 **Yuehua Wang**, Ling Liu, Calton Pu, Gong Zhang. A Utility-driven Routing Scheme for Scaling Multicast Applications, *In Proceedings of 2010 International Conference on Collaborative Computing (CollaborateCom 2010)*, October 9-12, 2010, Chicago

Honors & Awards

- 2015 Best Demo Award, 23rd National Science Foundation (NSF) GENI Engineering Conference, USA
- 2014 Best Demo Award, 21st NSF GENI Engineering Conference, USA
- 2014 First Runner-up Demo Award, 20th NSF GENI Engineering Conference, USA

Professional Activities

Technical Program Committee member of the 2015 IEEE International Conference on Computer Communications and Networks (ICCCN);

Reviewer for IEEE Transactions on Mobile Computing, ACM Transactions on Internet Technology, IEEE Transactions on Parallel and Distributed Systems, IEEE Transactions on Computers, Journal of Supercomputing, Journal of Parallel and Distributed Computing, IEEE/ACM IWQoS'14, IEEE MASS'14, IEEE ICCCN'14, SSS'14, DSD'14, IEEE WCNC'14, IEEE DCOSS'14, IEEE ICC'13, IEEE ICCCN'13, ACM MSWiM'13, IEEE MASS'13, COMNET'12, and IEEE GLOBECOM'12.