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Yuehua Wang

Research Interests

Cyber-physical systems, Internet of things, Artificial intelligence, mobile communication and computing, and autonomous driving

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

F19/S18-S17   **CSCI 559 Software development for Mobile Devices**, TAMUC.

S20-F16   **CSCI 531 Advanced Programing with Java**, TAMUC.

F17   **CSCI 520 Data Structures**, TAMUC.

S20/SS19   **CSCI 515 Fund Of Programming C/C++** , TAMUC.

F19   **CSCI 333 Appl Data Analy with Python**, TAMUC.

S18-F16   **CSCI 431/333 Java Programming Language**, TAMUC.

S20-S19   **COSC1436 Intro to Comp Sci & Prog** , TAMUC.

W16/F15   **CSC 5750 Principles of Web Technology**, Wayne State University.

W16/F15   **CSC 2110 Computer Science I**, Wayne State University.

W16   **CSC 1500 Fundamental Structures in Computer Sci.**, Wayne State University.

F15   **CSC 4290 Introduction to Computer Networking**, Wayne State University.

Publications

Book Chapter

2017   Urcun John Tanik, **Yuehua Wang**, Serkan GÃijldal , âĂIJSwarm Intelligence Applied to Big Data Analytics for Rescue Operations with RASEN Sensor Networks âĂİ, 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, âĂIJTrustworthy Foundation for CAVs in an Uncertain World: From Wireless Networking, Sensing, and Control to Software-Defined InfrastructureâĂİ, 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 Scalling 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

TPC/PC Member of

2013-Present ICWS18, ICNC17, GC-WOC16, ICCCN15, IMTIC 15/13, and WSN4DC13

Journal and Conference reviewer for

2012-Present IEEE Transactions on Computers, ACM Transactions on Internet Technology, IEEE Transactions on Parallel and Distributed Systems, Journal of Supercomputing, Journal of Parallel and Distributed Computing, IETE Journal of Research'17, IEEE ICC'18 SAC-3 CCN, DSD'17, MobiSPC'17, IEEE ICC'16, IEEE DSD'16, IMTIC'15, IEEE ICCCN'15, IEEE/ACM IWQoS'14, IEEE ICCCN'14, DSD'14, IEEE ICPP'14, IEEE EUC'13, IEEE ICC'13, IEEE ICCCN'13, ACM MSWiM'13, IEEE MASS'12, and IEEE GLOBECOM'12.