

# Yuehua Wang

## Research Interests

Autonomous Driving, Internet of Things, Artificial Intelligence, Cybersecurity, Mobile Communication and Computing, and Cyber-Physical 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

- 2022-present **Associate Professor**, *Computer Science& Info Systems*, TAMUC, TX.
- 2016-2022 **Assistant Professor**, *Computer Science& Info Systems*, TAMUC, TX.

## Teaching

- F19/S18-S17 **CSCI 559 Software development for Mobile Devices**, TAMUC.
- S22-F23 **CSCI 538 Artificial Intelligence**, TAMUC.
- F16-S20 **CSCI 531 Advanced Programing with Java**, TAMUC.
- F22,F23 **CSCI 525 Networking I**, TAMUC.
- F17 **CSCI 520 Data Structures**, TAMUC.
- S21-F23 **CSCI 518 Thesis**, TAMUC.
- S20-F23 **CSCI 515 Fund Of Programming C/C++** , TAMUC.
- Sum22 **CSCI 497 Block Chain and Concurrency Technology**, TAMUC.
- F23 **CSCI 491 H Independent Honors Rdgs**, TAMUC.
- S21-F23 **CSCI 428 Object Oriented Design**, TAMUC.
- S22-S23 **CSCI 351 Foundations of Info Security**, TAMUC.
- F19-F23 **CSCI 333 Appl Data Analy with Python**, TAMUC.
- S18-S19 **CSCI 431/333 Java Programming Language**, TAMUC.
- S19-S20 **COSC 1436 Intro to Comp Sci & Prog** , TAMUC.

## 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.

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### 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

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### 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.