Ting WANG

Associate Professor

School of Software Engineering, East China Normal University

Google Scholar: https://scholar.google.com/citations?user=05FUpSYAAAAJ&hl=EN

Homepage: https://tingwang1122.github.io/index.html

E-mail: twang@sei.ecnu.edu.cn

Education Background

Hong Kong University of Science & Technology, Hong Kong, China   09.2012 - 08.2015
- **PhD**, in Computer Science and Engineering

Warsaw University of Technology, Warsaw, Poland   09.2008 - 06.2011
- **Master**, in Information System Engineering (CSC funded)

University of Science & Technology Beijing, China   09.2004 - 07.2008
- **Bachelor**, in Information and Computing Science

Expertise & Research Interests

Data Center Networking, Cloud Computing, Software Defined Networking, Network Function Virtualization, Edge Computing, Green Computing

Work Experience

•	East China Normal University	Associate Professor	2020.04 – Present
•	Huawei Technologies Co, Ltd.	Senior Researcher	2016.07 – 2020.02
•	Alcatel-Lucent Bell Labs	Research Scientist	2015.09 – 2016.06
•	Chinese Academy of Sciences	Visiting Researcher	2012.03 – 2012.08

Teaching Experience

- **Teaching Assistant** for UG Course COMP 1001 "Exploring Multimedia and Internet Computing" at HKUST, 2012-2013 Spring semester and 2013-2014 Fall semester.
- **Teaching Assistant** for UG Course COMP 1942 "Exploring and Visualizing Data" at HKUST, 2013-2014 Spring semester.
- **Teaching Assistant** for PG course COMP 5621 "Computer Networks" at HKUST, 2014-2015 Spring semester.

Selected Hornors & Awards

- HUAWEI Hero, 2019;
- HUAWEI Ministerial Award, 2019；
- HUAWEI Presidential Award, 2019；
- Huawei Best Solution Design Award, 2018;

- HUAWEI Presidential Award, 2018;
- HUAWEI Ministerial Award, 2018;
- HUAWEI Future Star, 2017;
- HUAWEI Gold Medal Team Award, 2017;
- HUAWEI Cloud Core Network Excellent New Employee Award, 2017;
- HUAWEI Shanghai R&D Institute Excellent New Employee Award, 2017;
- HUAWEI SDT Diverse Incentives: Best Joint-Design Team Award, 2016
- Postgraduate Student Scholarship of HKUST, 2012, 2013, 2014, 2015;
- HKUST Research Travel Grant, 2014.06 and 2014.12;
- Scholarship granted by China Scholarship Council (CSC), 2008;
- Beijing Outstanding Graduates, 2008;
- People's Scholarship, 2005, 2006, 2007;
- Outstanding Student Cadre Award, 2005, 2006, 2007;
- The Campus Technological Innovation Competition, First Prize, 2007;
- "Youth Example of Capital City" Award (2 winners per university in Beijing), 2006;
- China Undergraduate Mathematical Contest in Modeling, Second Prize, 10.2006
- Youth Elitist of Science of University, 2006;
- Dean Medal: Top Ten Youth Elitists of Science Who Most Affects the School, 2006;
- The "YaoLan Cup" Physics Contest of University, 1st Place, 11.2005;

Publications

Journal/Transaction Papers

1. L. Wang, **T. Wang**, J. Yao, and K. Wu "Computation Offloading Architecture Design for Heterogeneous IoT: A Software-defined Approach", *IEEE Internet of Things Journal*, 2020. --- To be published.

2. **Ting Wang**, Yangzhou Wang, "An Efficient SDN-based Edge Computing Framework for Computation Offloading and Service Augmentation," *ICSES Interdisciplinary Transactions on Cloud Computing, IoT, and Big Data (IITCIB)*, pp. 1-3, Mar. 2019.

3. **T. Wang**, L. Wang and M. Hamdi "A Cost-effective Low-latency Overlaid Torus-based Data Center Network Architecture", *Journal of Computer Communications*, 2018.

4. Z. Su, **T. Wang**, and M. Hamdi, "JOTA: Joint Optimization for the Task Assignment of Sketch-based Measurement", *Journal of Computer Communications,* 2017.

5. **T. Wang**, and M. Hamdi, "Presto:Towards Efficient Online Virtual Network Embedding in Virtualized Cloud Data Centers", *Journal of Computer Networks,* 2016.

6. **T. Wang**, Z. Su, Y. Xia, B. Qin, and M. Hamdi, "Towards Cost-effective and Low Latency Data Center Network Architecture", *Journal of Computer Communications,* 2016.

7. **T. Wang**, Y. Xia, J. Muppala, and M. Hamdi, "Achieving Energy Efficiency in Data Centers Using an Artificial Intelligence Abstraction Model", *IEEE Transactions on Cloud Computing,* 2015.

8. **T. Wang**, B. Qin, Z. Su, Y. Xia, M. Hamdi, S. Foufou, and R. Hamila, "Towards Bandwidth Guaranteed Energy Efficient Data Center Networking", *Journal of Cloud Computing: Advances, Systems and Applications (JoCCASA),* 2015.

9. Z. Su, **T. Wang**, Y. Xia, M. Hamdi, "CeMon: A Cost-effective Flow Monitoring System in Software Defined Networks", *Journal of Computer Networks,* 2015.

10. **T. Wang**, Z. Su, Y. Xia, J. Muppala, and M. Hamdi, "Designing Efficient High Performance Server-Centric Data Center Network Architectures", *Journal of Computer Networks*, 2014.

11. **T. Wang**, Z. Su, Y. Xia, and M. Hamdi, "Rethinking Data Center Networking: Architecture, Network Protocols, and Resource Sharing", *Journal of IEEE Access*, 2014.

Conference Papers

12. **T. Wang**, and M. Hamdi "eMPTCP: Towards High Performance Multipath Data Transmission By Leveraging SDN", IEEE Global Communications Conference, GLOBECOM '18, 2018.

13. **T. Wang**, and Mounir Hamdi, "Enforcing Timely Network Policies Installation in OpenFlow-based Software Defined Networks", IEEE International Conference on Communications, ICC *'17*, 2017.

14. **T. Wang**, M. Hamdi, "An Efficient Framework for Online Virtual Network Embedding in Virtualized Cloud Data Centers", *IEEE International Conference on Cloud Networking, CloudNet '15,* 2015.

15. **T. Wang**, and M. Hamdi, "JieLin: A Scalable and Fault Tolerant Server-Centric Data Center Network Architecture", *IEEE Global Communications Conference, GLOBECOM '15,* 2015.

16. **T. Wang**, Z. Su, Y. Xia, and M. Hamdi, "CLOT: A Cost-effective Low-latency Overlaid Torus-based Network Architecture for Data Centers", IEEE International Conference on Communications, ICC '15, 2015.

17. Z. Su, **T. Wang**, M. Hamdi, "COSTA: Cross-layer Optimization for Sketch-based Software Defined Measurement Task Assignment", IEEE/ACM International Symposium on Quality and Service (IWQoS'15), 2015.

18. Y. Xia, **T. Wang**, Z. Su, and M. Hamdi, "Preventing Passive TCP Timeouts in Data Center Networks with Packet Drop Notification", IEEE International Conference on Cloud Networking, CloudNet′14, 2014.

19. **T. Wang**, Z. Su, Y. Xia, B. Qin, and M. Hamdi, "NovaCube: A Low Latency Torus-Based Network Architecture for Data Centers", *IEEE Global Communications Conference, GLOBECOM '14*, 2014.

20. **T. Wang**, Y. Xia, J. Muppala, M. Hamdi, and S. Foufou, "A General Framework For Performance Guaranteed Green Data Center Networking", *IEEE Global Communications Conference, GLOBECOM '14*, 2014.

21. Y. Xia, **T. Wang**, Zhiyang Su, M. Hamdi, "Fine-Grain Power Control for Combined Input-Crosspoint Queued Switches", *IEEE Global Communications Conference, GLOBECOM '14*, 2014.

22. Z. Su, **T. Wang**, Y. Xia, and M. Hamdi, "FlowCover: Low-cost Flow Monitoring Scheme in Software Defined Networks", *IEEE Global Communications Conference, GLOBECOM '14*, 2014.

23. **T. Wang**, Z. Su, Y. Xia, Y. Liu, J. Muppala and M. Hamdi, "SprintNet: A High Performance Server-Centric Network Architecture for Data Centers", IEEE International Conference on Communications, ICC '14, 2014.

24. **T. Wang**, Y. Xia, D. Lin, and M. Hamdi, "Improving the efficiency of server-centric data center network architectures", IEEE International Conference on Communications, ICC '14, 2014.

25. Z. Su, **T. Wang**, Y. Xia, and M. Hamdi, "CheetahFlow - Towards Low Latency Software-Defined Network", IEEE International Conference on Communications, ICC '14, 2014.

Professional Activities

Journal Editorial Board

- **Editor-in-Chief** of ICSES Interdisciplinary Transactions on Cloud Computing, IoT, and Big Data (IITCIB)
- **Associate Editor** of Journal of *IEEE Access*, 2018-2021
- **Editorial Board** (Technical Committee) of Journal of Computer Communications.
- Editorial Board Member of *Journal of Progress in Human Computer Interaction.*
- Editorial Board Member of Journal of *Current Electronics And Telecommunications(CET)*
- Editorial Board Member of Journal of Autonomous Intelligence, EnPress Publisher
- Lead Guest Editor for *Journal of Computer Networks and Communications*
- Editorial Board Member of *Journals of Advances in Networks*, Science PG, 2017-2019.
- Editorial Advisory Board member of Cambridge Scholars Publishing Telecommunication books
- Editorial Board Member of *International Journal of Information Technology Convergence and Services (IJITCS)*
- Lead Guest Editor for *American Journal of Networks and Communications*
- Editorial Board Member in AR Research Publication & Conference World, 2017-2020
- Editorial Board Member of Journal of *Computer Software and Media Applications*, EnPress Publisher

Conference Chair

- Chair of NFV-SDN Special Track: The Seventeenth International Conference on Networks, ICN 2018, April 22, 2018 to April 26, 2018 - Athens, Greece

Conference Technical Program Committee

- The 2nd International Conference on Sensor Networks and Signal Processing (SNSP 2019), Nov.19-22, 2019, Hualien, Taiwan
- The 2018 2nd International Conference on Modeling, Simulation and Optimization Technologies and Applications (MSOTA2018), November 25-26, 2018, Xiamen, China
- 4th International Conference of Networks, Communications, Wireless and Mobile Computing, August 25~26, 2018, Dubai, UAE
- The 2018 2nd International Conference on Applied Mathematics, Modelling and Statistics Application, May 27-28, 2018, SANYA, China.
- The Seventeenth International Conference on Networks, ICN 2018, April 22-26, 2018 - Athens, Greece
- The Eighteenth International Conference on Networks, ICN 2019, March 24-28, Valencia, Spain
- The 2018 International Conference on Software Engineering and Service Science, Suzhou, China, June 22-24, 2018.
- The 3rd annual International Workshop on Wireless Communication and Network (IWWCN2017), Beijing China, December 8-10, 2017.
- International Conference on Computer Technologies Innovations & Applications, ICCTIA 2015, 2016
- International Conference on Cloud Computing & Cryptography, ICCCC 2015
- Global Summit on Computer & Information Technology, GSCIT 2015, 2016, 2017
- International Conference on Engineering & Computational Innovation Sciences, ENCINS 2015
- IEEE International Symposium on Signal Processing and Information Technology, ISSPIT 2015
- International Conference On Signal Processing and Data Mining, ICSPDM 2015
- International Biometrics & Smart Government Summit, IBMSGS 2015
- International Conference on Advances in Computing, Communications and Informatics, ICACCI Doctoral Consortium 2015, 2016
- International Conference on Architectural Research & Computer-Aided Design, ICARCAD, 2017
- International Conference on Information & Communication Technology and System, 2016

Regular Reviewers for Journals/Conferences

- IEEE Journal on Selected Areas in Communications (JSAC)
- IEEE Transactions on Computers (TC)
- IEEE/ACM Transactions on Networking (ToN)
- IEEE Transactions on Cloud Computing (TCC)
- IEEE Access
- Computer Networks, Elsevier

- IEEE International Conference on Communications, ICC

- Journal of Cloud Computing: Advances, Systems and Applications, Springer

- IEEE International Conference on High Performance Switching and Routing (HPSR)

- Journal of Applied Computing and Informatics, Elsevier

- Journal of Network and Computer Applications, Elsevier

- Journal of Neural Computing and Applications, Springer

- The Journal of Supercomputing, Springer

- International Conference on Sensor Networks and Signal Processing (SNSP).

- Journal of Computers & Electrical Engineering, Elsevier

- The annual International Workshop on Wireless Communication and Network (IWWCN)

- Journal of Recent Advances in Electrical & Electronic Engineering

- The International Conference on Electronics, Communications and Networks (CECNet)

- KSII Transactions on Internet and Information Systems

- International Conference on Advances in Computing, Communications and Informatics, ICACCI

- Frontiers of Information Technology & Electronic Engineering (JZUS)