Xianliang Jiang

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Short Bio.

Xianliang Jiang was born in Huangshan, a world famous city of China. After graduating from Zhejiang university, he joined in Ningbo University as a faculty member in 2016. His academic page: *https://www.xianliangjiang.com/*

Research Interest

I am broadly interested in networking system, especially congestion control algorithms in cellular networks and datacenter, machine learning in network protocol design, Internet of Things system, network security, *etc.*

Education

Zhejiang University, Hangzhou, China 2012 – 2016
Ph.D in Computer Science and Technology

Ningbo University, Ningbo, China 2009 – 2012
M.S. in Computer Science and Technology

University of Science and Technology of China, Hefei, China 2005 – 2009
B.S. in Computer Science and Technology (Full-time Adult Higher Education)

Experience

Ningbo University, Ningbo, China 2016 – Present
Lecturer in Faculty of Electrical Engineering and Computer Science

Project

- **PI**: "Research on Transmission Methods with Agile, Self-learned and High-efficiency Characteristics in High-Speed Wireless Wide Area Networks", the Young Scholar Program of National Natural Science Foundation of China (NSFC) under Grant No. 61601252, 2017-2019.
- **PI**: "Research on the High-Efficiency Transmission Methods in High-Speed Networks", Open Foundation of State key Laboratory of Networking and Switching Technology (Beijing University of Posts and Telecommunications) under Grant No. SKLNST-2016-2-13, 2016-2018.
- **PI**: "Research on the Self-learning and Efficient Transmission Control Methods in High-Speed Wireless Wide Area Networks", Ningbo Natural Science Foundation under Grant No. 2017A610116, 2016-2018.
- **Co-PI**: "Research on the Software-Defined and Scalable Transmission Control Methods in Complex Networks", Public Technology Projects of Zhejiang Province under Grant No. GG18F020020, 2018-2020.
- **Co-PI**: "Effective Coexistence and Reliable Parallel Data Transmission of Multiple Sensing Networks in the Internet of Things", Zhejiang Provincial Natural Science Foundation of China under Grant No. LY18F020011, 2018-2020.

Teaching

- **Operating System**: 106F14A (Fall 2016, Fall 2017, Fall 2018), 102J05C (Fall 2017, Fall 2018)
- **Computer Network**: 101G09I (Spring 2017), 106F11A (Spring 2017, Spring 2018, Spring 2019)
- **Network Integration Practice**: 103G05D (Spring 2017)
- **Network Engineering Course Design**: 103J34D (Spring 2018)
- **Wireless Networks and its Applications**: 103T26B (Spring 2019)
- **Object-Oriented Programming Design (C Plus Plus)**: 107J01H (Spring 2018, Spring 2019)

- **Undergraduate Tutor**: Fall 2016, Spring 2017, Fall 2017, Spring 2018, Fall 2018

Service

- **Journal Reviewer**: IEEE Communications Letters (2013-), Computer Networks (2016-), Computer Communications (2016-), Transactions on Emerging Telecommunications Technologies (2017-), Wireless Networks (2018-), IEEE Wireless Communications Letters (2018-), Journal of Network and Computer Applications (2018-)
- **Conference Reviewer**: GLOBECOM 2016, ICPCSEE 2019
- **TPC Member**: APCC 2019, IEEE COMNETSAT 2019

Book

Guang Jin, **Xianliang Jiang**. Wireless Networking Technology. Tsinghua University Press, 1st edition in 2010, 2nd edition in 2014, 3rd edition in 2017. (used by more than 270 domestic universities, an experimental teaching toolkit was also developed with this book, more details: *http : //www.thinkmesh.net/wireless/index_pc.html*)

Publication

[1] Jianhui Zhuang, **Xianliang Jiang**, Guang Jin, Jiahua Zhu, Haiming Chen. PTCP: A Priority-Driven Congestion Control Algorithm to Tame TCP Incast in Data Centers. *IEEE ACCESS*, 2019, Accepted.

[2] Bo Su, **Xianliang Jiang**, Guang Jin, Haiming Chen. Rethinking the Rate Estimation of BBR Congestion Control. *Electronics Letters*, 2018, Accepted.

[3] **Xianliang Jiang**, Guang Jin, Haiming Chen. HFCC: An Adaptive Congestion Control Algorithm based on Explicit Hybrid Feedbacks. *In Proc. ICCCN*, Jul. 2018, Hangzhou, China.

[4] **Xianliang Jiang**, Guang Jin. Adaptive Low-Priority Congestion Control for High Bandwidth-Delay Product and Wireless Networks. *Computer Communications*, 2017, 105: 44-52.

[5] Chenglong Su, Guang Jin, **Xianliang Jiang**, Jun Niu. An Active Queue Management Algorithm Focusing on Fairness and Low Delay. *Journal on Communications*, 2017, 38(5): 199-206. (in chinese)

[6] **Xianliang Jiang**, Guang Jin. CFD: An Efficient Active Queue Management Algorithm with Controlling Fairness and Delay. *Electronics Letters*, 2016, 52(24): 2015-2017.

[7] **Xianliang Jiang**, Guang Jin. CLTCP: An Adaptive TCP Congestion Control Algorithm based on Congestion Level. *IEEE Communications Letters*, 2015, 19(8): 1307-1310.

[8] **Xianliang Jiang**, Guang Jin, Jiangang Yang. LRURC: A Low Complexity and Approximate Fair Active Queue Management Algorithm for Choking Non-Adaptive Flows. *IEEE Communications Letters*, 2015, 19(4): 545-548.

[9] **Xianliang Jiang**, Jiangang Yang, Guang Jin, Wei Wei. RED-FT: A Scalable Random Early Detection Scheme with Flow Trust against DoS Attacks. *IEEE Communications Letters*, 2013, 17(5): 1032-1035.

[10] **Xianliang Jiang**, Guang Jin, Jiangang Yang, Jiaming He. AS-level Model for Restraining DoS Attacks. *Journal on Communications*, 2013, 34(9): 132-141. (in chinese)

[11] Jin Guang, Gao Zihang, **Jiang Xianliang**, Zhu Jiahua. Development of Island Aquaculture Environment Monitoring System based on Low-power Wide Area Networks. *Transactions of the Chinese Society of Agricultural Engineering*, 2018, 34(24): 184-191. (in chinese)

[12] Wei Tang, Guang Jin, Jiaming He, **Xianliang Jiang**. Extending Android Security Enforcement with a Security Distance Model. *In Proc. iTAP*, Aug. 2011.

[13] Zhen Jing, Zhijun Xie, Shoudong Shi, **Xianliang Jiang**. A Power Control Algorithm for Wireless Body Area Network Based on Feedback Regulation. *Computer Engineering*, 2017, 43(4): 100-109. (in chinese)

[14] Lujuan Huang, Guang Jin, Jiaming He, **Xianliang Jiang**. DDoS Defense with Jointed Deployment of IP Traceback and Path Identification. *Computer Engineering and Applications*, 2014, 50(5): 74-78. (in chinese)