



JUNXIAO WANG

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EXPERIENCE

HK Polytechnic University	2021–now	Postdoctoral Researcher
	Department of Computing (COMP)	Project: Federated Learning over Mobile Edge Networks, is aiming at privacy leakage and the development of privacy-preserving deep learning frameworks. Supervisor: Prof. Song Guo
Queen Mary University, London	2018–2019	Visiting Researcher
	School of Electronic Engineering and Computer Science (EECS)	Project: Network Enhancement with Software Defined Networking and Network Function Virtualization, is developing novel and efficient architectures, algorithms and systems to guarantee datacenter in-network's performance. Supervisor: Prof. Steve Uhlig

EDUCATION

Dalian University of Technology	2016–2020	PhD, Computer Technology Application
	College of Computer Science and Technology	Thesis: Research on Techniques of Performance Guarantee for Software Defined Network Function Virtualization System Advisor: Prof. Keqiu Li
Dalian University of Technology	2014–2017	MEng, Computer Systems Organization
	College of Computer Science and Technology	Thesis: Research on Request Dispatching for Multi-Controllers in Software-Defined Networking Advisor: Prof. Keqiu Li
Dalian Maritime University	2010–2014	BE, Software Engineering
	College of Information Science and Technology	Recommended and Exam-exempted Postgraduate

PROFESSIONAL ACTIVITIES

2020.10	PC Member for IEEE ICPADS Workshop on Network Computing and Data Management (NCDM).
2019.12	Session Chair for IEEE International Conference on Parallel and Distributed Systems (ICPADS).

PUBLICATIONS

[Journal]	Junxiao Wang , Heng Qi, Wenxin Li, Keqiu Li, Steve Uhlig, Yuxin Wang. "Dynamic SDN Control Plane Request Assignment in NFV Datacenters". IEEE Transactions on Network Science and Engineering, 2021.
	Heng Qi, Junxiao Wang , Wenxin Li, Yuxin Wang, Tie Qiu. "A Blockchain-driven IIoT Traffic Classification Service for Edge Computing". IEEE Internet of Things Journal, 2020.

Junxiao Wang, Heng Qi, Keqiu Li, Steve Uhlig. "Click-UP: Towards the Software Upgrade of Click based Modular Network Function". IEEE Systems Journal, 2020.

Xinping Xu, Wenxin Li, Heng Qi, **Junxiao Wang**, Keqiu Li. "Latency-Constrained Cost-Minimized Request Allocation for Geo-distributed Cloud Services". IEEE Open Journal of the Communications Society, 2020.

Junxiao Wang, Heng Qi, Yang He, Wenxin Li, Keqiu Li. "FlowTracer: An Effective Flow Trajectory Detection Solution Based on Probabilistic Packet Tagging in SDN-Enabled Networks". IEEE Transactions on Network and Service Management, 2019.

Junxiao Wang, Heng Qi, Keqiu Li, Xiaobo Zhou. "PRSFC-IoT: A Performance and Resource Aware Orchestration System of Service Function Chaining for Internet of Things". IEEE Internet of Things Journal, 2018.

[Conference]

Keyan Zhao, **Junxiao Wang**, Heng Qi, Xin Xie, Keqiu Li. "HBL-Sketch: A New Three-tier Sketch for Accurate Network Measurement". International Conference on Algorithms and Architectures for Parallel Processing, 2019.

Wanqian Zhang, **Junxiao Wang**, Sheng Chen, Heng Qi, Keqiu Li. "A Framework for Resource-aware Online Traffic Classification Using CNN". International Conference on Future Internet Technologies, 2019.

Wenrui Zhou, Yuan Cao, Heng Qi, **Junxiao Wang**. "An Effective Network Intrusion Detection Framework Based on Learning to Hash". IEEE International Conference on Smart Internet of Things, 2019.

Junxiao Wang, Yuchen Huang, Heng Qi, Keqiu Li, Steve Uhlig. "CLICK-UP: Towards Software Upgrades of Click-driven Stateful Network Element". ACM SIGCOMM Conference Demo, 2018.