Pengyuan Zhou

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RESEARCH INTERESTS	*Edge Computing, Vehicular Network, Content Delivery Network, Information Centric Networks*	

EDUCATION

University of Helsinki, Finland — Expected November, 2019
PhD, Computer Science
Supervisor: *Prof.Dr.Jussi Kangasharju (link), Prof.Dr.Pan Hui (link)*

University of Science and Technology Beijing, China — January 2015
M.Sc, Electrical Engineering
Supervisor: *Prof.Dr.Siquan Hu*

University of Science and Technology Beijing, China — July 2011
B.Sc, Electrical Engineering

TECHNICAL SKILLS

Programming : Python, C++, Java, C, BASH, HTML5, LaTeX

Tools/Framework :
- Edgex Foundry (*Edge Computing*),
- Icarus (*Information Centric Networking*),
- Veins (*Vehicular Networking*),
- SUMO (*Vehicular traffic*),
- Darknet (*Object detection*)

Develop : Linux Kernel, Raspberry pi, IEEE 802.11p, Android application

Language : Chinese (*native*), English (*business, GRE(320/340)*)

EXPERIENCE

Hong Kong University of Science and Technology, Hong Kong — 2018.02-06
Visiting Researcher
Collaborated with HKUST-DT System and Media Laboratory for Edge Computing powered Vehicle Network.
Host: *Prof.Dr.Pan Hui*

UNINETT, Norway — 2017.02-06
Visiting Researcher
Collaborated with UNINETT for clustering user request upon similarity to optimize CDN performance.
Host: *Prof.Dr.Otto J Wittner*

Ruijie Networks, China — 2013-2014
Network Engineer Intern
Participated in National 863 subproject on SDN.

SCHOLARSHIP

Marie Curie ITN Funding for PhD study — 2015-2018
CleanSky ITN, funded by the Marie-Curie-Actions within the 7th Framework Programme of the European Union (EU FP7)

Master program full scholarship — 2012-2015
Rank #1 in entrance examination
Dept. of Electrical Engineer, University of Science and Technology Beijing (USTB)

PROJEDTS	**Where's My Data**	**Academy of Finland**

The project investigates distributed data management in edge
computing environments, targeting Industrial Internet applications.
PI:*Prof.Dr.Jussi Kangasharju (Univ. of Helsinki)* 2018-2019

CleanSky ITN **Europe Union**

http://www.cleansky-itn.org/ 2014-2018
CleanSky aims to develop innovative ideas in the emerging areas
within the eco-system of cloud computing.
Collaboration: Nine university of industrial institutes in Europe, China and USA. PI: *Prof.Dr.Xiaoming Fu (Univ. of Gottingen)*

PAPER

- [In Review] Edge-facilitated Augmented Vision in Vehicle-to-Everything Network RTSS'19
P. Zhou, T. Braud, W. Zhang, P. Hui and J. Kangasharju
40th IEEE Real-Time Systems Symposium

- [In Review] Container Scheduling Strategy for Edge Networking Globecom'19
W. Wong, A. Zavodovski, **P. Zhou**, O. Waltari, and J. Kangasharju
IEEE Global Communications Conference 2019

- Enhanced Augmented Reality Applications in Vehicle-to-Edge Networks ICIN'19
P. Zhou, W. Zhang, T. Braud, P. Hui and J. Kangasharju
22nd Conference on Innovation in Clouds, Internet and Networks

- DeCloud: Truthful Decentralized Double Auction for Edge Clouds ICDCS'19
A. Zavodovski, S. Bayhan, N. Mohan, **P.Zhou**, W. Wong, J. Kangasharju
39th International Conference on Distributed Computing Systems

- ERL: Edge Based Reinforcement Learning for Optimized Urban Traffic Light Control SmartEdge'19
P. Zhou, T. Braud, A. Alhilal, P. Hui and J. Kangasharju
2019 Percom Workshop on Smart Edge Computing and Networking

- Augmented Reality Applications in Vehicle to Edge Networks MECOMM'18
P. Zhou, W. Zhang, T. Braud, P. Hui and J. Kangasharju
2nd ACM SIGCOMM Workshop on Mobile Edge Communications Networking

- Anveshak: Placing Edge Servers In The Wild MECOMM'18
N. Mohan, A. Zavodovski, **P. Zhou** and J. Kangasharju
2nd ACM SIGCOMM Workshop on Mobile Edge Communications Networking

- Managing Data in Computational Edge Clouds MECOMM'17
N. Mohan, **P. Zhou**, K. Govindaraj, and J. Kangasharju
1st ACM SIGCOMM Workshop on Mobile Edge Communications Networking

- Grouping Computational Data in Resource Caches of Edge-Fog Cloud CrossCloud'17
N. Mohan, **P. Zhou**, K. Govindaraj, and J. Kangasharju
ACM EuroSys Workshop on CrossCloud Infrastructures and Platforms

- Profiling and Grouping Users to Edge Resources According to User Interest Similarity CAN'16
P. Zhou and J. Kangasharju
ACM CoNEXT Workshop on Cloud-Assisted Networking

ACADEMIC SERVICES	**China Europe Association for Computer Science** http://ceacs.eu/ Aims at promoting Industry-University-Research Collaboration in computer science between China and Europe.	Co-founder & Chair 2017 - now
	Smart City Security Workshop (link) To promote the communication and collaboration between Shanghai City ICT expert team and Univ. of Helsinki, Univ. of Aalto and Univ. of Turku.	Chair
	Edge Hackathon (link) The first hackathon focusing on Edge Computing with 2000 EUR as winner prize.	Chair
	3rd International CleanSky Conference	Organizer
	2nd International CleanSky Summer School	Organizer
	IEEE ICC'18 CQRM	Reviewer

TALKS	• Enhanced Augmented Reality Applications in Vehicle-to-Edge Networks Paper Presentation at ICIN 2019	Paris, 2019
	• ERL: Edge Based Reinforcement Learning for Traffic Light Control Paper Presentation at SmartEdge 2019 (Percom)	Kyoto, 2019
	• Augmented Reality Applications in Vehicle to Edge Networks Paper Presentation at MECOMM 2018 (SIGCOMM)	Budapest, 2018
	• The era of Edge Introduction at Edge Hackathon	Helsinki, 2017
	• User Interest Profiling Invited talk at GI-Dagstuhl Seminar 16353	Dagstuhl, 2016
	• Profiling and Grouping Users to Edge Resources Paper Presentation at CAN 2016 (CoNEXT)	Irvine, California 2016

TEACHING	Networked Systems and Services Univ. of Helsinki	TA, 2018
	Networked Systems and Services Univ. of Helsinki	TA, 2017
	C++ USTB	TA, 2014

REFERENCES	Prof.Dr.Jussi Kangasharju (link) University of Helsinki jussi.kangasharju@helsinki.fi
	Prof.Dr.Pan Hui (link) Hong Kong University of Science and Technology, University of Helsinki pan.hui@helsinki.fi
	Prof.Dr.Xiaoming Fu (link) Georg-August-University of Goettingen fu@cs.uni-goettingen.de