Pengyuan Zhou

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RESEARCH INTERESTS   *Edge Computing, Connected Vehicles, AIoT, Mobile AR*

EDUCATION

University of Helsinki, Finland   Defense planning in May, 2020
PhD, Computer Science
Supervisor: *Prof. Jussi Kangasharju, Prof.Pan Hui*

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

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

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**   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
University of Science and Technology Beijing

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

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

CleanSky ITN   **Europe Union**

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)*

PAPERS

- [In Revision] Edge-facilitated Augmented Vision in Vehicle-to-Everything Network   `TVT`
  P. Zhou, T. Braud, A. Zavodovski, Z. Liu, F. Xian, W. Zhang, P. Hui and J. Kangasharju
  IEEE Transactions on Vehicular Technology

- Multipath Computation Offloading for Mobile Augmented Reality   `PERCOM'20`
  T. Braud, **P. Zhou**, J. Kangasharju and P. Hui
  IEEE International Conference on Pervasive Computing and Communications
  Acceptance rate: 14.2%

- Enhanced Augmented Reality Applications in Vehicle-to-Edge Networks   `ICIN'19`
  P. Zhou, W. Zhang, T. Braud, P. Hui and J. Kangasharju
  IEEE 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
  IEEE 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 SmartEdge@PERCOM Workshop

- Augmented Reality Applications in Vehicle to Edge Networks   `MECOMM'18`
  P. Zhou, W. Zhang, T. Braud, P. Hui and J. Kangasharju
  2018 MECOMM@SIGCOMM Workshop

- Anveshak: Placing Edge Servers In The Wild   `MECOMM'18`
  N. Mohan, A. Zavodovski, **P. Zhou** and J. Kangasharju
  2018 MECOMM@SIGCOMM Workshop

- Managing Data in Computational Edge Clouds   `MECOMM'17`
  N. Mohan, **P. Zhou**, K. Govindaraj, and J. Kangasharju
  2017 MECOMM@SIGCOMM Workshop

- Grouping Computational Data in Resource Caches of Edge-Fog Cloud   `CrossCloud'17`
  N. Mohan, **P. Zhou**, K. Govindaraj, and J. Kangasharju
  2017 CrossCloud@EuroSys Workshop

- Profiling and Grouping Users to Edge Resources According to User Interest Similarity   `CAN'16`
  P. Zhou and J. Kangasharju
  2016 CAN@CoNEXT Workshop

ACADEMIC SERVICES

China Europe Association for Computer Science   Co-founder & Chair
http://ceacs.eu/   2017 - now
Aims at promoting Industry-University-Research Collaboration
in computer science between China and Europe.

Edge Hackathon (link)   Chair
The first hackathon focusing on Edge Computing with 2000 EUR as winner prize.

3rd International CleanSky Conference   Organizer

2nd International CleanSky Summer School   Organizer

TALKS

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

TECHNICAL SKILLS

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

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

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

TEACHING

Networked Systems and Services · · · · · · TA, 2018
University of Helsinki

Networked Systems and Services · · · · · · TA, 2017
University of Helsinki

C++ programming · · · · · · TA, 2014
University of Science and Technology Beijing

REFERENCES

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University of Helsinki
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Prof.Dr.Pan Hui
Hong Kong University of Science and Technology, University of Helsinki
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Prof.Dr.Xiaoming Fu
Georg-August-University of Goettingen
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