

Gaoxiong Zeng (曾高雄)

Contact Information

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Hong Kong University of Science and Technology

Clear Water Bay, Hong Kong SAR, China

Education

Hong Kong University of Science and Technology (HKUST)

Hong Kong, China

Ph.D. in Computer Science and Engineering

2015 - Present

Advisor: Prof. Kai Chen

University of Science and Technology of China (USTC)

Hefei, China

B.E. in Electronic Engineering and Information Science

2011 - 2015

Experiences

[Research Intern] Peng Cheng Laboratory, Shenzhen, China

2019.09 - Present

[Research Intern] Huawei, Hong Kong, China

2018.11 - 2019.01

[Research Intern] Chinese Academy of Sciences, Beijing, China

2014.07 - 2014.08

Research Interests

Data Center Networking; Machine Learning Systems.

Publications

Conference Publications:

[C-2] **Aeolus: A Building Block for Proactive Transport in Datacenters**

Shuihai Hu, Wei Bai, **Gaoxiong Zeng**, Zilong Wang, Kai Chen, Kun Tan, Yi Wang

The Annual Conference of the ACM Special Interest Group on Data Communication (**SIGCOMM**), 2020.

[C-1] **Congestion Control for Cross-Datacenter Networks**

Gaoxiong Zeng, Wei Bai, Ge Chen, Kai Chen, Dongsu Han, Yibo Zhu, Lei Cui

The 27th IEEE International Conference on Network Protocols (**ICNP**), 2019.

Journal Publications:

[J-1] **Transport Protocols for Data Center Networks: A Survey**

Gaoxiong Zeng, Shuihai Hu, Junxue Zhang, Kai Chen

Journal of Computer Research and Development (**J-CRAD**), 2020.

Workshop Publications:

[W-2] **Rethinking Transport Layer Design for Distributed Machine Learning**

Jiacheng Xia, **Gaoxiong Zeng**, Junxue Zhang, Weiyan Wang, Wei Bai, Junchen Jiang, Kai Chen

The 3rd ACM Asia-Pacific Workshop on Networking (**APNet**), 2019.

[W-1] **Combining ECN and RTT for Datacenter Transport**

Gaoxiong Zeng, Wei Bai, Ge Chen, Kai Chen, Dongsu Han, Yibo Zhu

The 1st ACM Asia-Pacific Workshop on Networking (**APNet**), 2017.

Posters & Demos:

- **Improved Path Compression for Explicit Path Control in Production Data Centers**

Shuihai Hu, Kai Chen, **Gaoxiong Zeng**

The 13th USENIX Symposium on Networked Systems Design and Implementation (**NSDI**), 2016.

Honors & Awards

[HKUST] Research Postgraduate Scholarship *2015, 2016, 2017, 2018, 2019, 2020*

[USTC] Graduation Award of The Talent Program in Computer & Information Sci. & Tech. *2015*

[USTC] Outstanding Student Scholarship *2012, 2013, 2014*

[Department of Education, Guangdong] Provincial Soong Ching Ling Scholarship *2010*