Gaoxiong Zeng

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 - 2020.01*

[Research Intern] Huawei Technologies, Hong Kong, China   *2018.11 - 2019.01*

[Research Intern] Chinese Academy of Sciences, Beijing, China   *2014.07 - 2014.08*

Research Interests

Data Center Networking (e.g., transport protocols, programmable networks); 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.

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.

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.

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*
[ACM APNet] Student Travel Grant	*2017*
[USTC] Graduation Award of the Talent Program in Computer & Information Sci. & Tech.	*2015*
[USTC] 1st Place in the Electronics Design Competition of the Talent Program	*2014*
[USTC] Outstanding Student Scholarship	*2012, 2013, 2014*
[Department of Education, Guangdong] Provincial Soong Ching Ling Scholarship	*2010*