Cheng Wang

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Education

The University of Hong Kong   *Hong Kong, China*
PhD, Computer Science   *Sept. 2015 - Jan. 2020*
Advisor: Heming Cui
Thesis: High Reliability in Cloud Computing

Cornell University   *Ithaca, USA*
Visiting Researcher   *June. 2019 - Oct. 2019*
Advisor: Robbert van Renesse, Hakim Weatherspoon

Tongji University   *Shanghai, China*
B.Eng., Software Engineering   *Sept. 2011 - July. 2015*
GPA: 4.6/5.0, ranking: 9/180

Publications

Fulva: Efficient Live Migration for In-memory Key-Value Stores with Zero Downtime
Jiewen Hai*, **Cheng Wang***, Xusheng Chen, Tsz On Li, Heming Cui, Sen Wang (*co-first authors)
38th IEEE International Symposium on Reliable Distributed Systems (IEEE SRDS'19)

PLOVER: Fast, Multi-core Scalable Virtual Machine Fault-tolerance
Cheng Wang, Xusheng Chen, Weiwei Jia, Haoran Qiu, Boxuan Li, Shixiong Zhao, Heming Cui
15th USENIX Symposium on Networked Systems Design and Implementation (USENIX NSDI'18)

Effectively Mitigating I/O Inactivity in vCPU Scheduling
Weiwei Jia, **Cheng Wang**, Xusheng Chen, Jianchen Shan, Xiaowei Shang, Heming Cui, Xiaoning Ding, Luwei Cheng, Francis C. M. Lau, Yuexuan Wang, Yuangang Wang
2018 USENIX Annual Technical Conference (USENIX ATC'18)

APUS:Fast and Scalable PAXOS on RDMA
Cheng Wang, Jianyu Jiang, Xusheng Chen, Ning Yi, Heming Cui
ACM Symposium on Cloud Computing 2017 (SoCC'17)

A Fast, General Storage Replication Protocol for Active-Active Virtual Machine Fault Tolerance
Cheng Wang, Xusheng Chen, Zixu Wang, Youwei Zhu, Heming Cui
IEEE 23rd International Conference on Parallel and Distributed Systems (IEEE ICPADS'17)

TRIPOD: An Efficient, Highly-available Cluster Management System
Cheng Wang, Jingyu Yang, Ning Yi, Heming Cui
7th ACM SIGOPS Asia-Pacific Workshop on Systems (APSys'16)

Patent

Non-Blocking Distributed Consensus in Hypervisor
Cheng Wang, Xusheng Chen, Heming Cui, Weifeng Shen, Long Bai, Shuzhan Bi
PCT/CN2018/082225 (Owned by Huawei)

Working Experience

NEC Laboratories Europe   *Heidelberg, Germany*
Research Scientist   *June. 2018 - Oct. 2018*
Advisor: Felipe Huici
Research topic: Unikernel-based prediction serving systems for machine learning

Masters of Arts Anwendungsentwicklung GmbH   *Hamburg, Germany*
Full Stack Developer   *Sept. 2014 - Feb. 2015*

Teaching Assistant

COMP3402 - System Architecture and Distributed Computing   Spring 2016
COMP3402 - System Architecture and Distributed Computing   Spring 2017
COMP3402 - System Architecture and Distributed Computing   Spring 2018
COMP3402 - System Architecture and Distributed Computing   Spring 2019