

Cheng Wang

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Education

The University of Hong Kong

PhD, Computer Science

Advisor: Heming Cui

Thesis: High Reliability in Cloud Computing

Hong Kong, China

Sept. 2015 - Jan. 2020

Cornell University

Visiting Researcher

Advisor: Robbert van Renesse, Hakim Weatherspoon

Ithaca, USA

June. 2019 - Oct. 2019

Tongji University

B.Eng., Software Engineering

GPA: 4.6/5.0, ranking: 9/180

Shanghai, China

Sept. 2011 - July. 2015

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

Research Scientist

Advisor: Felipe Huici

Research topic: Unikernel-based prediction serving systems for machine learning

Heidelberg, Germany

June, 2018 - Oct. 2018

Masters of Arts Anwendungsentwicklung GmbH

Full Stack Developer

Hamburg, Germany

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