

Hengfeng Wei | Nanjing University, CS, PhD

Dept. of Computer Science and Technology

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Education

Dept. of Computer Science and Technology

Ph.D.

Supervisor: Prof. Jian Lu and Assoc. Prof. Yu Huang

Nanjing University

2009.09–2016.12

Dept. of Computer Science and Technology

B.Sc.

Nanjing University

2005.09–2009.06

Research

Research Interests: Distributed Data Consistency; Distributed Computing and Distributed Systems; Formal Methods

Ph.D. Thesis: Research on Key Technologies for the Distributed Data Consistency Problem

Supervisor: Prof. Jian Lu and Assoc. Prof. Yu Huang

Publications: Three papers: PA2AM@TC'16 (CCF A Journal) [1], VPC@TPDS'16 (CCF A Journal) [2], and CTL₃@PerCom'12 (CCF B Conference) [3].

Honors and Awards

The Program A for Outstanding PhD Candidate of Nanjing University 2015

Tung OOCL Scholarship 2015

Excellent Graduate Student 2012

Skills

English: CET4/CET6: 614/518;

Excellent in reading and writing, good at listening and speaking.

Computer: Familiar with Java

Understanding functional programming languages (e.g., Haskell), C, and C++

Understanding Wolfram Mathematica

Familiar with \LaTeX Beamer and \LaTeX TikZ & PGF

Projects

CHAMELEON^{TKVS}: A distributed transactional key-value store prototype system.


• <https://github.com/hengxin/chameleon-transactional-kvstore>


- CHAMELEON^{TKVS} implements a new transactional consistency model called RVSI (Relaxed Version Snapshot Isolation) and it allows clients to dynamically tune consistency levels. RVSI is a relaxation of SI and is able to control its anomalies with respect to SI. CHAMELEON^{TKVS} is deployed on Aliyun.


DISTMOBILEMEMO: Distributed shared memory system among Android™ phones.

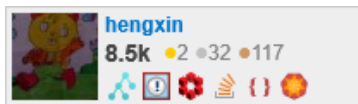
- <https://github.com/hengxin/distributed-mobile-memo>
- This system simulates distributed shared atomic&2-atomic read/write registers among mobile phones. See paper PA2AM@TC'16 [1].

Additional Information

 **GitHub:** <https://github.com/hengxin>

 **ResearchGate:** https://www.researchgate.net/profile/Hengfeng_Wei

 **StackExchange:** <http://stackexchange.com/users/2055160/hengxin>



Publications

- [1] Hengfeng Wei, Yu Huang, and Jian Lu. “Probabilistically-Atomic 2-Atomicity: Enabling Almost Strong Consistency in Distributed Storage Systems”. In: *IEEE Trans. Parallel Distrib. Syst. PrePrints* xx.x (2016), pp. x–x. DOI: 10.1109/TC.2016.2601322.
- [2] Hengfeng Wei, Marzio De Biasi, Yu Huang, Jiannong Cao, and Jian Lu. “Verifying Pipelined-RAM Consistency over Read/Write Traces of Data Replicas”. In: *IEEE Trans. Parallel Distrib. Syst.* 27.5 (May 2016), pp. 1511–1523. URL: <http://dx.doi.org/10.1109/TPDS.2015.2453985>.
- [3] Hengfeng Wei, Yu Huang, Jiannong Cao, Xiaoxing Ma, and Jian Lu. “Formal specification and runtime detection of temporal properties for asynchronous context”. In: *Proceedings of the 10th IEEE International Conference on Pervasive Computing and Communications (PerCom '12)*, IEEE, 2012, pp. 30–38. URL: <http://ieeexplore.ieee.org/document/6199846/>.