Yongzhe Zhang

Contact Information

Programming Research Lab
National Institute of Informatics
2-1-2 Hitotsubashi, Chiyoda-ku
Tokyo, 101-8430, Japan

Office Phone: (03) 4212-2611
E-mail: zyz915@nii.ac.jp
Website: https://zyz915.github.io/

Research Interests

Distributed Computing, Graph Processing, Functional Programming, Erasure codes

Education

SOKENDAI (The Graduate University of Advanced Studies), Japan

Ph.D. student in Department of Informatics (Oct. 2015 to present)

- Research Topic: distributed computing, graph processing
- Advisor: Prof. Zhenjiang Hu

Shanghai Jiao Tong University, China

MSc in Computer Science and Technology (Sept. 2013 to June 2015)

- Graduate Thesis: *TIP-code: A Three Independent Parity Code to Tolerate Triple Disk Failures with Optimal Update Complexity*
- Advisor: Dr. Chentao Wu, Prof. Minyi Guo

BSc in Computer Science and Technology (Sept. 2009 to June 2013)

- Dissertation: *Price-oriented Product Recommendation in New Categories*
- Advisor: Prof. Yong Yu

Research Experience

Programming Research Lab, National Institute of Informatics
Oct. 2015 to present

- distributed computing, graph processing

Embedded and Pervasive Computing Center, Shanghai Jiao Tong University
Sept. 2013 to Aug. 2015

- Erasure codes and reliable storage systems

Mobile and Sensing Systems Group, Microsoft Research Asia
Aug. 2012 to Jan. 2013

- Indoor localization and Windows app analysis

Data and Knowledge Management Lab, Shanghai Jiao Tong University
July 2011 to June 2013

- Computer vision and machine learning

Publications

Zirun Zhu, **Yongzhe Zhang**, Hsiang-Shang Ko, Pedro Martines, Joao Saraiva and Zhenjiang Hu. Parsing and Reflective Printing, Bidirectionally. *The 9th International Conference on Software Language Engineering (SLE'16)*

Yongzhe Zhang, Chentao Wu, Jie Li and Minyi Guo. PCM: A Parity-check Matrix Based Approach to Improve Decoding Performance of XOR-based Erasure Codes. *The 34th International Symposium on Reliable Distributed Systems (SRDS'15).*

Yongzhe Zhang, Chentao Wu, Jie Li and Minyi Guo. TIP-code: A Three Independent Parity Code to Tolerate Triple Disk Failures with Optimal Update Complexity. *The 45th International Conference on Dependable Systems and Networks (DSN'15).*

Achievements

ACM International Collegiate Programming Contest:

- 2nd place of Jakarta Site, 4th place of Chengdu Site (2010)
- 2nd place of Shanghai Site, 4th place of Phuket Site (2009)

Technical Skills

Programming Languages:

- C++, C, python, Haskell, OCaml, Rust, Java, Pascal

Graph Processing Systems:

- Giraph, Pregel+