Yongzhe Zhang

| CONTACT INFORMATION | Programming Research Lab
National Institute of Informatics
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RESEARCH INTERESTS

Distributed Computing, Graph Processing, Compiler

EDUCATION

SOKENDAI (The Graduate University of Advanced Studies), Japan

Ph.D. student in Department of Informatics (Oct. 2015 to present)
- Research Topic: Programming Model for Distributed 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, Functional Programming

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 2012
- Computer vision and machine learning

PUBLICATIONS

Yongzhe Zhang, Zhenjiang Hu. Composing Optimization Techniques for Vertex-Centric Graph Processing via Communication Channels. *The 33rd International Conference on Parallel and Distributed Processing Symposium (IPDPS'19)*

Yongzhe Zhang, Hsiang-Shang Ko, Zhenjiang Hu. Palgol: A High-Level DSL for Vertex-Centric Graph Processing with Remote Access. *The 15th Asian Symposium on Programming Languages and Systems (APLAS'17)*

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, team: Halo)
- 2nd place of Shanghai Site, 4th place of Phuket Site (2009, team: TriPAL)

TECHNICAL SKILLS Programming Languages:
- C++, C, python, Haskell

Language
- Japanese (N1)