

## Luo Zhaojing

<https://www.comp.nus.edu.sg/~zhaojing/>

[zhaojingluo@gmail.com](mailto:zhaojingluo@gmail.com) | (65) 86724863

### Education

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**National University of Singapore (NUS), Singapore**

**Jul. 2014 – Nov. 2019**

Ph.D., Computer Science, School of Computing

Research Interests: Knowledge Driven Deep/Machine Learning, Regularization,  
Data Analytics Systems, Healthcare Analytics, Fintech

Thesis Title: Regularization at Ease for Deep Learning Applications

**Huazhong University of Science and Technology (HUST), China**

**Sep. 2010 – Jul. 2014**

Bachelor, Computer Science and Technology, School of Computer Science and Technology

GPA: 86.77/100; Ranking: 1st/28

Thesis Title: Solving the Fixed-Spectrum Frequency Assignment Problem via  
Iterated Tabu Search

### Professional Activities

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- A Deep Learning Approach for Readmission Prediction, talk at Singapore-Illinois Workshop on Health Ageing and Technology, National University Hospital, Singapore, 2016.
- Readmission Prediction using Deep Learning, talk at Clinical Artificial Intelligence in the Age of Precision Medicine, National University Hospital, Singapore, 2017.
- Integrated Healthcare Analytics, healthcare software stack demonstration at NUS-NUHS-MIT Healthcare AI Datathon and EXPO, National University of Singapore, 2018.
- AI with Apache SINGA Workshop, International Workshop in Computer Science and Information Systems, Institut Teknologi Sepuluh (ITS), Surabaya, Indonesia, 2022.
- **Project Management Committee (PMC)** member of **Apache SINGA Distributed Deep Learning Platform (Apache Top-Level Project)**.
- **Program Committee** member of **DASFAA (2021)**.
- **Session Chair** for “Emerging Applications” in **DASFAA (2021)**.
- Invited reviewer for **AAAI Conference (2021)**.
- **Program Committee** member of **ICDE (2022)**.
- **Program Committee** member of **DASFAA (2022)**.
- **Program Committee** member of **EDBT Demo Track (2022)**.
- Invited reviewer for **ICDE (2023)**.
- Invited reviewer for **DASFAA (2023)**.
- Invited reviewer for **Big Data Research**.
- Invited reviewer for **ACM Transactions on Data Science (TDS)**.
- Invited reviewer for **Journal of Computer Science and Technology (JCST)**.

- Invited reviewer for **ACM Transactions on Intelligent Systems and Technology (TIST)**.
- Invited reviewer for **IEEE Transactions on Knowledge and Data Engineering (TKDE)**.

## Selected Publications

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- Z. Luo, S. Cai, Y. Wang, B. C. Ooi. Regularized Pairwise Relationship based Analytics for Structured Data. ACM SIGMOD/PODS International Conference on Management of Data (SIGMOD), 2023.
- J. Zhang, Z. Luo, Q. Xu, M. Zhang. PA-FEAT: Fast Feature Selection for Structured Data via Progress-Aware Multi-Task Deep Reinforcement Learning. IEEE International Conference on Data Engineering (ICDE), 2023.
- L. Zhu, Z. Luo, W. Wang, M. Zhang, G. Chen, K. Zheng. Towards robust cross-domain image understanding with unsupervised noise removal. ACM international conference on Multimedia (MM), 2021.
- K. Yang, Z. Luo, J. Gao, J. Zhao, B.C. Ooi, B. Xie. LDA-Reg: Knowledge Driven Regularization using External Corpora. IEEE Transaction on Knowledge and Data Engineering (TKDE), 2021.
- Z. Luo, S.H. Yeung, M. Zhang, K. Zheng, L. Zhu, G. Chen, F. Fan, Q. Lin, K.Y. Ngiam, B.C. Ooi. MLCask: Efficient Management of Component Evolution in Collaborative Data Analytics Pipelines. IEEE International Conference on Data Engineering (ICDE), 2021.
- C. Cui, W. Wang, M. Zhang, G. Chen, Z. Luo, B. C. Ooi. AlphaEvolve: A Learning Framework to Discover Novel Alphas in Quantitative Investment. ACM SIGMOD/PODS International Conference on Management of Data (SIGMOD), 2021.
- Z. Luo, S. Cai, C. Cui, B. C. Ooi, Y. Yang. Adaptive Knowledge Driven Regularization for Deep Neural Networks. AAAI Conference on Artificial Intelligence (AAAI), 2021.
- Z. Luo, S. Cai, G. Chen, J. Gao, W. Lee, K.Y. Ngiam and M. Zhang. Improving Data Analytics with Fast and Adaptive Regularization. IEEE Transaction on Knowledge and Data Engineering (TKDE), 2019.
- Z. Luo, S. Cai, J. Gao, M. Zhang, K.Y. Ngiam, G. Chen and W. Lee. Adaptive Lightweight Regularization Tool for Complex Analytics. IEEE International Conference on Data Engineering (ICDE), 2018.
- C. Lee, Z. Luo, K.Y. Ngiam, M. Zhang, K. Zheng, G. Chen, B.C. Ooi and W.L.J. Yip. Big Healthcare Data Analytics: Challenges and Applications. Handbook of Large-Scale Distributed Computing in Smart Healthcare, Springer-Verlag, 2016.
- A.P. Athreya, K.Y. Ngiam, Z. Luo, E.S. Tai, Z. Kalbarczyk and R.K. Iyer. Towards Longitudinal Analysis of a Population's Electronic Health Records using Factor Graphs. IEEE/ACM International Conference on Big Data Computing, Applications and Technologies (BDCAT), 2016.
- B. C. Ooi, K.-L. Tan, S. Wang, W. Wang, G. Chen, J. Gao, Z. Luo, A.K.H. Tung, Y. Wang, Z. Xie, M. Zhang and K. Zheng. SINGA: A Distributed Deep Learning Platform. ACM international conference on Multimedia (MM), 2015.

## Awards

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- Best Paper Runner-Up Award, ICDE, 2018.
- Best Paper Award, BDCAT, 2016.
- Dean's Graduate Award, NUS, 2019.
- Research Achievement Award, NUS, 2018.
- Research Scholarship, NUS, 2014 – 2018.