

CURRICULUM VITAE

Linchuan Xu

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ACADEMIC QUALIFICATIONS

Ph.D. 2018, The Hong Kong Polytechnic University, Hong Kong

B.Eng. 2013, Beijing University of Posts and Telecommunications, China

PRESENT POSITION

Chief Technology Officer 2023-present, TheSEA Inc.

Project Researcher (Part-Time) 2023-present, Department of Mathematical Informatics, The University of Tokyo, Japan

POSITIONS HELD

Research Assistant Professor 2020-2023, Department of Computing, The Hong Kong Polytechnic University (PolyU), Hong Kong

Postdoctoral Researcher 2018-2020, Department of Mathematical Informatics, The University of Tokyo, Japan

Visiting Research Student 2015-2016, Department of Computer Science, University of Illinois at Chicago, USA

RESEARCH INTEREST

Health Informatics, Network Analysis, Visual Foundation Models

AWARDS

2018 PAKDD Student Travel Award

2017 DSAA Best Research Paper Award

2017 DSAA Student Travel Award

2017 WSDM Student Travel Award

REPRESENTATIVE RESEARCH WORKS

(13 journal papers and 21 conference papers in total including one best student research paper)

1. Lin, Chuan-hao, Linchuan Xu, and Kenji Yamanishi. “Network Change Detection Based on Random Walk in Latent Space.” *IEEE Transactions on Knowledge and Data Engineering* (2022). To Appear. **CCF A**
2. Yamanishi, Kenji, Linchuan Xu, Ryo Yuki, Shintaro Fukushima, and Chuan-hao Lin. “Change Sign Detection with Differential MDL Change Statistics and its Applications to COVID-19 Pandemic Analysis.” *Scientific Reports* 11, no. 1 (2021): 1-15. **JCR Q2**

3. Suzuki, Atsushi, Atsushi Nitanda, Linchuan Xu, Kenji Yamanishi, and Marc Cavazza. "Generalization Bounds for Graph Embedding Using Negative Sampling: Linear vs Hyperbolic." *Advances in Neural Information Processing Systems* 34 (2021): 1243-1255. **CCF A**
4. Linchuan Xu, Ryo Asaoka, Taichi Kiwaki, Hiroshi Murata, Yuri Fujino, and Kenji Yamanishi. "PAMI: A Computational Module for Joint Estimation and Progression Prediction of Glaucoma." In *Proceedings of the 27th ACM SIGKDD Conference on Knowledge Discovery & Data Mining*, pp. 3826-3834. 2021. **CCF A**
5. Linchuan Xu, Ryo Asaoka, Taichi Kiwaki, Hiroshi Murata, Yuri Fujino, Masato Matsuura, Yohei Hashimoto et al. "Predicting the Glaucomatous Central 10-Degree Visual Field from Optical Coherence Tomography Using Deep Learning and Tensor Regression." *American Journal of Ophthalmology* 218 (2020): 304-313. **JCR Q1**
6. Suzuki, Atsushi, Atsushi Nitanda, Jing Wang, Linchuan Xu, Kenji Yamanishi, and Marc Cavazza. "Generalization Error Bound for Hyperbolic Ordinal Embedding." In *International Conference on Machine Learning*, pp. 10011-10021. PMLR, 2021. **CCF A**
7. Linchuan Xu, Jing Wang, Lifang He, Jiannong Cao, Xiaokai Wei, S. Yu Philip, and Kenji Yamanishi. "MixSp: a Framework for Embedding Heterogeneous Information Networks with Arbitrary Number of Node and Edge Types." *IEEE Transactions on Knowledge and Data Engineering* 33, no. 6 (2019): 2627-2639. **CCF A**
8. Linchuan Xu, Jiannong Cao, Xiaokai Wei, and S. Yu Philip. "Network Embedding via Coupled Kernelized Multi-Dimensional Array Factorization." *IEEE Transactions on Knowledge and Data Engineering* 32, no. 12 (2019): 2414-2425. **CCF A**
9. Linchuan Xu, Xiaokai Wei, Jiannong Cao, and Philip S. Yu. "On Exploring Semantic Meanings of Links for Embedding Social Networks." In *Proceedings of the 2018 World Wide Web Conference*, pp. 479-488. 2018. **CCF A**
10. Zheng, Yuhui, Linchuan Xu, Taichi Kiwaki, Jing Wang, Hiroshi Murata, Ryo Asaoka, and Kenji Yamanishi. "Glaucoma Progression Prediction using Retinal Thickness via Latent Space Linear Regression." In *Proceedings of the 25th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining*, pp. 2278-2286. 2019. **CCF A**
11. Wei, Xiaokai, Linchuan Xu, Bokai Cao, and Philip S. Yu. "Cross View Link Prediction by Learning Noise-Resilient Representation Consensus." In *Proceedings of the 26th International Conference on World Wide Web*, pp. 1611-1619. 2017. **CCF A**
12. Linchuan Xu, Xiaokai Wei, Jiannong Cao, and Philip S. Yu. "Embedding of Embedding (EOE) Joint Embedding for Coupled Heterogeneous Networks." In *Proceedings of the tenth ACM International Conference on Web Search and Data Mining*, pp. 741-749. 2017. **CCF B**