Prof. Zhenghua XU

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1   Education

Doctor of Philosophy (D.Phil) in Computer Science   Oct 2013 – Nov 2017
Department of Computer Science   University of Oxford   United Kingdom
Thesis: *Personalized Search and Recommendation on the Social Web*   Supervisor: Thomas Lukasiewicz

Master of Philosophy (M.Phil) in Computer Science   Feb 2011 – Aug 2012
Department of Computing and Information Systems   University of Melbourne   Australia
Thesis: *Online Time Series Approximation and Prediction*   Supervisor: Rui Zhang

Master of Information Technology   Feb 2010 – Feb 2011
Department of Computing and Information Systems   University of Melbourne   Australia

Bachelor of Engineering   Sep 2005 – Jul 2009
School of Info. and Comm. Engineering   Beijing University of Posts and Telecomm.   China

2   Working Experience

Jun 2018 – Now	**Professor** State Key Laboratory of Reliability and Intelligence of Electrical Equipment, School of Electrical Engineering, Hebei University of Technology, China;
Jul 2018 – Now	**Visiting Research Associate** Department of Computer Science, University of Oxford, United Kingdom;
Dec 2017 – Jul 2018	**Research Associate** Department of Computer Science, University of Oxford, United Kingdom;
Nov 2014 – Oct 2015	**Research Assistant** Department of Computer Science, University of Oxford, United Kingdom;
Mar 2012 – Sep 2013	**Analyst Researcher** School of Electrical and Computer Engineering, RMIT University, Australia.

3   Awards & Honours

- Jason Hu Scholarship   Balliol College, University of Oxford   Sep 2013 – Sep 2016
- Runner-up for Best Paper award   Australasian Database Conference   Feb 2012
- Departmental Studentship   University of Melbourne   Feb 2011 – Feb 2012

4   Research Interests

My current research interests concentrate especially on Artificial Intelligence and Information Management, e.g., *Artificial Intelligence, Deep Learning, Web Data Mining, Search and Recommendation System, etc.*

5 Selected Publications

* stands for corresponding author

5.1 Journal Publications

[1] Cheng Chen, Xiangwu Meng, **Zhenghua Xu**, and Thomas Lukasiewicz. Location-Aware Personalized News Recommendation With Deep Semantic Analysis. *In IEEE Access*. (***SCI JCR Q1***)

[2] **Zhenghua Xu**, Oana Tifrea-Marciuska, Thomas Lukasiewicz, Maria Vanina Martinez, Gerardo I. Simari, and Cheng Chen. Lightweight Tag-Aware Personalized Recommendation on the Social Web Using Ontological Similarity. *In IEEE Access*. (***SCI JCR Q1***)

5.2 Papers in Top-Tier Conferences

[3] Yuhang Song, Jianyi Wang, Thomas Lukasiewicz, **Zhenghua Xu*** and Mai Xu. Diversity-Driven Extensible Hierarchical Reinforcement Learning. *Accepted to publish in the 33rd AAAI Conference on Artificial Intelligence (AAAI)*, 2019. (***CCF Rank A, Acceptance rate: 16.2%***)

[4] **Zhenghua Xu***, Thomas Lukasiewicz, Cheng Chen, Yishu Miao and Xiangwu Meng. Tag-Aware Personalized Recommendation Using a Hybrid Deep Model. *In the proceeding of International Joint Conference on Artificial Intelligence (IJCAI)*, 2017. (***CCF Rank A, Acceptance rate: 25.9%***)

[5] Cheng Chen, Thomas Lukasiewicz, Xiangwu Meng and **Zhenghua Xu** (in alphabetical order). Location-Aware News Recommendation Using Deep Localized Semantic Analysis. *In the proceeding of 22nd International Conference on Database Systems for Advanced Applications (DASFAA)*, 2017. (***CCF Rank B, Acceptance rate: 24.3%***)

[6] **Zhenghua Xu**, Cheng Chen, Thomas Lukasiewicz, Yishu Miao and Xiangwu Meng. Tag-Aware Personalized Recommendation Using a Deep-Semantic Similarity Model with Negative Sampling. *In the proceeding of 25th ACM International Conference on Information and Knowledge Management (CIKM)*, 2016. (***CCF Rank B, Acceptance rate: 28.8%***)

[7] Andy Yuan Xue, Rui Zhang, Yu Zheng, Xing Xie, Jin Huang and **Zhenghua Xu***. Destination Prediction by Sub-trajectory Synthesis and Privacy Protection against Such Prediction. *In the proceeding of 29th IEEE International Conference on Data Engineering (ICDE)*, 2013. (***CCF Rank A, Acceptance rate: 19.8%, Number of citaions: 200***)

[8] **Zhenghua Xu**, Rui Zhang, Ramamohanarao Kotagiri and Udaya Parampalli. An Adaptive Online Algorithm for Time Series Segmentation with Error Bound Guarantee. *In the proceeding of 15th International Conference on Extending Database Technology (EDBT)*, 2012. (***CCF Rank B, Acceptance rate: 22.5%***)

5.3 Other Refereed Papers

[8] **Zhenghua Xu**, Thomas Lukasiewicz and Oana Tifrea-Marciuska. Improving Personalized Search on the Social Web Based on Similarities Between Users. *In the proceeding of 8th International Conference on Scalable Uncertainty Management (SUM)*, 2014. (***EI index***)

[9] **Zhenghua Xu**, Xinghuo Yu, Yong Feng, Jiankun Hu, Zahir Tari and Fengling Han. A Multi-Module Anomaly Detection Scheme based on System Call Prediction. *In the proceeding of 8th IEEE Conference on Industrial Electronics and Applications (ICIEA)*, 2013. (***EI & ISTP index***)

[10] **Zhenghua Xu**, Xinghuo Yu, Yong Feng, Jiankun Hu, Zahir Tari and Fengling Han. Top-k Future System Call Prediction Based Multi-Module Anomaly Detection System. *In the proceeding of 6th International Congress on Image and Signal Processing (CISP)*, 2013. (***EI & ISTP index***)

[11] Jianzhong Qi, **Zhenghua Xu**, Yuan Xue and Zeyi Wen. A Branch and Bound Method for Min-dist Location Selection Queries. *In the proceeding of 23rd Australasian Database Conference (ADC)*, 2012. (***Runner-up for Best Paper award***)