Lei Le

Contact Information

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Research Interests

Statistical Machine Learning, particularly representation learning via regularized dictionary learning; Optimization, particularly non-convex optimization; Reinforcement learning, particularly sparse coding for states

Education

Indiana University, Bloomington, IN, United States

Ph.D, Computer Science, Aug 2013 to present

- Advisor: Martha White, Ph.D

Tongji University, Shanghai, China

Master of Management Science,
Information Management and Information System, Sep 2010 to Mar 2013

East China Normal University, Shanghai, China

Bachelor of Management Science,
Information Management and Information System, Sep 2006 to Jun 2010

Research Experience

Research Assistant Aug 2015 to present
Department of Computer Science,
Indiana University Bloomington
Supervisor: Martha White, Ph.D

Teaching Experience

Associate Instructor Spring 2015
CSCI-B554: Probabilistic Approaches to Artificial Intelligence at Indiana University Bloomington

Associate Instructor Fall 2014
CSCI-B561: Advanced Database Concepts at Indiana University Bloomington

Associate Instructor Spring 2014 & Fall 2013
CSCI-A110: Introduction to Computers and Computing

Manuscripts

1. **Lei Le**, Andrew Patterson, and Martha White. Effectively using dictionary learning to improve prediction accuracy, In submission to IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI).
2. **Lei Le** and Martha White. Identifying global optimality for dictionary learning. In submission to Journal of Machine Learning Research (JMLR).

Publications

1. **Lei Le**, Raksha Kumaraswamy, and Martha White. Learning sparse representations in reinforcement learning with sparse coding. In Proceedings of the Twenty-Sixth International Joint Conference on Artificial Intelligence, IJCAI-17, pages 2067–2073, 2017
2. **Lei Le**, Emilio Ferrara, and Alessandro Flammini. On predictability of rare events leveraging social media: A machine learning perspective. In Proceedings of the 3rd ACM Conference on Online Social Networks (COSN'15), Palo Alto, CA, USA, November 2015.