Lei Le

Contact Information

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Research Interests

Machine Learning, especially representation learning. I am interested in convex optimization approaches for nonconvex representation problem. Specifically, I am now focusing on globally optimum optimization (mainly alternating minimization and stochastic gradient descent) on regularized factor model, which is in essence matrix factorization problem with desired properties encoded in regularizers and able to encompass supervised and semisupervised learning as well. I am also interested in optimization in reinforcement learning.

Education

Sep.2013	Indiana University - Bloomington, IN, The United States
-Present	**PhD Student:** School of Informatics and Computing, Department of Computer Science, Major of Computer Science, Minor of Statistics
Sep.2010	Tongji University - Shanghai, China
-Mar.2013	**Master of Management Science:** School of Economics and Management, Department of Management Science and Engineering, Major of Information Management and Information System
Sep.2006	East China Normal University - Shanghai, China
-Jun.2010	**Bachelor of Management:** School of Business, Department of Information Science, Major of Information Management and Information System

Teaching Experience

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

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

Spring 2014 & Fall 2013 — Associate Instructor of **CSCI-A110: Introduction to Computers and Computing** at Indiana University Bloomington

Research Experience

August.2015-Present — Research Assistant at Indiana University Bloomington, **Instructor:** Prof. White, Martha
Project:
1) Stochastic Optimization for Regularized Factor Models;
2) Global Optimization of Regularized Factor Models using Alternating Minimization

Feb.2015-Sep.2014 — Graduate Independent Study at Indiana University Bloomington, **Instructor:** Prof. Flammini, Alessandro
Project: On Predictability of Rare Events Leveraging Social Media

Publications

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, November 2015.