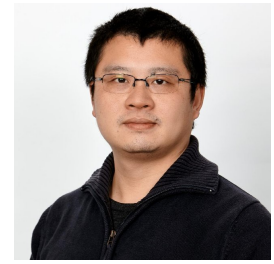Dr. Lan Du
Department of Data Science & AI
Monash Data Futures Institute
Email: Lan.Du@monash.edu

Biography

Dr Lan Du is a Teaching and Research Academic in the Faculty of IT, Monash Clayton Campus. He is particularly interested in statistical modeling and learning for text analysis, which broadly covers statistical machine learning, natural language processing, data mining, and social network analysis. My up-to-date information can be found here
Some specific research topics that he is interested in and currently working on:

Probabilistic topic modeling: He is extremely interested in developing various topic models that can explore different

discourse structures and other meta information associated with natural language text.

Nonparametric Bayesian methods, e.g., Dirichlet process, Pitman-Yor process, and Indian Buffet process. He has been

working on developing different sampling methods for Pitman-Yor process since his Ph.D. study.

Inference/ optimization algorithms, e.g., MCMC methods, Variational Bayesian (VB), and various numerical optimization

algorithms

Relational learning techniques, e.g., probabilistic matrix factorization, tensor factorization, etc. He is interested in

combining matrix factorization techniques with topic models to improve, for example, recommendation systems.

Natural Language Processing. He has worked in the NLP group at Macquarie University for about four years. He is

interested in how to utilize different linguistic features in topic modeling.

Qualifications

Computer Science, Doctor of Philosophy, Australian National University
Award Date: 13 Dec 2012

Information Technology, Bachelor of Information Technology (Honours), Australian National University
Award Date: 21 Dec 2007

Information Technology, Bachelor of Communication and Information Technology, Flinders University
Award Date: 15 Dec 2006