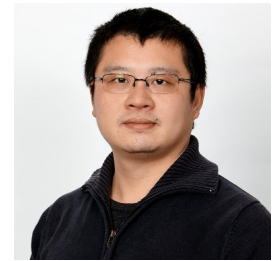


Dr. Lan Du
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Biography

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