Dandan Guo

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Research Interest

My research lies at the intersection of statistical machine learning and its combinations with real-world applications. I am interested in probabilistic methods, deep generative models, representation learning and meta learning. These developed models and algorithms have been applied to time series modeling, text analysis, natural language processing, few-shot generation (classification), and automatic radar target recognition.

Education

- **Post-doctoral**. **The Chinese University of Hong Kong, Shenzhen (2020 -2022.12)**
  Advised by Hongyuan Zha
- **Ph.D**. **Xidian University, Xi'an** **(2014.09-2020.08)**
  in Signal and Information Processing, *Advised by Bo Chen*
- **B.Sc.** **The North University of China, Taiyuan** **(2010.09-2014.07)**
  in Optical Information Science and Technology

Publications

[1] **Dandan Guo**, Chaojie Wang, Baoxiang Wang and Hongyuan Zha, "Learning Fair Representations via Graph Regularization and Distance Correlation Minimization", in IEEE Transactions on Neural Networks and Learning Systems (**TNNLS**, **SCI 一区，影响因子 10.451**), 2022.

[2] **Dandan Guo***, Ruiying Lu*, Bo Chen and Mingyuan Zhou. "Matching Visual Features to Hierarchical Semantic Topics for Image Paragraph Captioning", in International Journal of Computer Vision (**IJCV**, **CCF-A 类期刊**), 2022. *共同一作.

[3] **Dandan Guo**, Long Tian, Minghe Zhang, Mingyuan Zhou and Hongyuan Zha. "Learning Prototype-oriented Set Representations for Meta-Learning ", in International

Conference on Learning Representations（**ICLR，机器学习顶级国际会议，清华计算机评定 A 类会议**）, 2022.

[4] Dongsheng Wang*, **Dandan Guo***, He Zhao, Huangjie Zheng, Korawat Tanwisuth, Bo Chen and Mingyuan Zhou. "Representing Mixtures of Word Embeddings with Topic Embeddings ", in International Conference on Learning Representations（**ICLR，机器学习顶级国际会议，清华计算机评定 A 类会议**）, 2022. *共同一作.

[5] **Dandan Guo**, Bo Chen, Meixi Zheng and Hongwei Liu." SAR Automatic Target Recognition based on Supervised Deep Variational Auto-encoding Model "， in IEEE Transactions on Aerospace and Electronic Systems (**TAES，二区，影响因子 4.102，航空领域顶级期刊**), 2021.

[6] **Dandan Guo**, Bo Chen, Ruiying Lu and Mingyuan Zhou. " Recurrent Hierarchical Topic-Guided RNN for Language Generation", in International Conference on Machine Learning（**ICML，机器学习顶级国际会议，CCF-A 类会议，谷歌引用 16**）, 2020.

[7] **Dandan Guo**, Bo Chen, Wenchao Chen and Mingyuan Zhou, Hongwei Liu. "Variational Temporal Deep Generative Model for Radar HRRP Target Recognition", in IEEE Transactions on Signal Processing (**TSP，信号处理顶级期刊，SCI 一区，影响因子 4.931，谷歌引用 14**), 2020.

[8] **Dandan Guo**, Bo Chen, Hao Zhang and Mingyuan Zhou. "Deep Poisson Gamma Dynamical Systems." in Conference on Neural Information Processing Systems（**NeurIPS，机器学习顶级国际会议，CCF-A 类会议，谷歌引用 21**）, 2018.

[9] Jinpeng Hu, He Zhao, **Dandan Guo***, Xiang Wan*, Tsung-Hui Chang. " A Label-Aware Autoregressive Framework for Cross-Domain NER". Findings of **NAACL (自然语言处理顶级会议)**, 2022. *共同通信.

[10]Chuan Du, Yulai Cong, Lei Zhang, **Dandan Guo**, Song Wei. "A Practical Deceptive Jamming Method Based on Vulnerable Location Awareness Adversarial Attack for Radar HRRP Target Recognition" in IEEE Transactions on Information Forensics and Security(**TIFS**, **SCI 一区，影响因子 7.178**)，2022.

[11] Hao Zhang, Bo Chen, Yulai Cong, **Dandan Guo**, Hongwei Liu, and Mingyuan Zhou. "Deep Autoencoding Topic Model with Scalable Hybrid Bayesian Inference", IEEE IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI，机器学习顶级期刊，CCF-A 类期刊，影响因子:17.73，谷歌引用 24**), 2020.

[12] Chuan Du, Bo Chen, Bin Xu, **Dandan Guo**, and Hongwei Liu, "Factorized discriminative conditional variational auto-encoder for radar HRRP target recognition," Signal Processing (**SP，信号处理期刊，SCI 二区，影响因子：4.086，谷歌引用 37**), vol. 158, pp. 176–189, 2019.

[13] Hao Zhang, Bo Chen, **Dandan Guo**, and Mingyuan Zhou. "WHAI. Weibull Autoencoding Inference for Deep Topic Modeling", in International Conference on Learning Representations（**ICLR，机器学习顶级国际会议，清华计算机评定 A 类会议，谷歌引用 69**）, 2018.

Under Review

[1] **Dandan Guo,** Long Tian, He Zhao, Mingyuan Zhou and Hongyuan Zha. "Adaptive Distribution Calibration for Few-Shot Learning with Hierarchical Optimal Transport", submitted to **NeurIPS**, 2022.

[2] **Dandan Guo,** Zhuo Li, Meixi Zheng, He Zhao, Mingyuan Zhou and Hongyuan Zha. "Learning to Re-weight Examples with Optimal Transport for Imbalanced Classification ", submitted to **NeurIPS**, 2022.

[3] **Dandan Guo,** Long Tian, Chuan Du, Pengfei Xie, Bo Chen, Lei Zhang, "Suspicious Object Detection for Millimeter-Wave Images with Multi-View Fusion Siamese Network ", submitted to **IEEE TIP**, 2021.

Experience Discrete Dynamical Systems (DDS) for COVID-19 Forecast
https://dds-covid19.github.io/ Core Contributors

Reviewer ICML/ ICLR /NeurIPS/ JMLR / TSP

Google Scholar https://scholar.google.com.hk/citations?user=QLOY4JkAAAAJ&hl=zh-CN