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,** Zhuo Li, Meixi Zheng, He Zhao, Mingyuan Zhou and Hongyuan Zha. "Learning to Re-weight Examples with Optimal Transport for Imbalanced Classification ", in Conference on Neural Information Processing Systems （**NeurIPS，机器学习顶级国际会议，CCF-A 类会议，接受率 25.6%**）, 2022.

[2]   **Dandan Guo,** Long Tian, He Zhao, Mingyuan Zhou and Hongyuan Zha. "Adaptive Distribution Calibration for Few-Shot Learning with Hierarchical Optimal Transport", （**NeurIPS，机器学习顶级国际会议，CCF-A 类会议，接受率 25.6%**）, 2022.

[3]   **Dandan Guo**, Chaojie Wang, Baoxiang Wang and Hongyuan Zha, "Learning Fair Representations via Graph Regularization and Distance Correlation Minimization", accepted by IEEE Transactions on Neural Networks and Learning Systems (**TNNLS, SCI 一区，影响因子 14.255**), 2022.

[4] **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.

[5] **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，清华计算机评定 A 类会议**）, 2022.

[6] Dongsheng Wang*, **Dandan Guo***, He Zhao, Huangjie Zheng, Korawat Tanwisuth, Bo Chen and Mingyuan Zhou. "Representing Mixtures of Word Embeddings with Topic Embeddings ", （**ICLR，清华计算机评定 A 类会议**）, 2022. *共同一作.

[7] **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.

[8] **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.

[9] **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 18**), 2020.

[10] **Dandan Guo**, Bo Chen, Hao Zhang and Mingyuan Zhou. "Deep Poisson Gamma Dynamical Systems." （**NeurIPS，机器学习顶级国际会议，CCF-A 类会议，谷歌引用 24**）, 2018.

[11] 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.

[12] 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.

[13] 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 25**), 2020.

[14] 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 41**), vol. 158, pp. 176–189, 2019.

[15] Hao Zhang, Bo Chen, **Dandan Guo**, and Mingyuan Zhou. "WHAI. Weibull Autoencoding Inference for Deep Topic Modeling", （**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 74**）, 2018.

Under Review

[1] **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.

[2] Dongsheng Wang, **Dandan Guo**, He Zhao, Bo Chen, Mingyuan Zhou. "Improving Neural Topic Models by Contrastive Learning with BERT". submitted to **TNNLS**, 2022.

[3] Dongsheng Wang, He Zhao, **Dandan Guo**, Bo Chen, Mingyuan Zhou. "Towards Improving Topic Models with the BERT-based Neural Topic Encoder". submitted to **ACM TOIS**, 2022.

[4] Ruiying Lu, Bo Chen, **Dandan Guo**, Dongsheng Wang, Mingyuan Zhou. "Hierarchical Topic-Aware Contextualized Transformers". submitted to **T-ASL**,2022.

Experience	Discrete Dynamical Systems (DDS) for COVID-19 Forecast
	https://dds-covid19.github.io/ Core Contributors
Reviewer	ICML/ ICLR /NeurIPS/ JMLR / TSP
Homepage：	https://dandanguo1993.github.io/Homepage/