Hansong Zhang

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BIOGRAPHY

I am a third-year bachelor-straight-to-Ph.D. student at Institute of Information Engineering, Chinese Academy of Sciences. Before that, I received my bachelor's degree from North China Electric Power University, where I was working on Nonlinear Dynamics and AI4science. My current research interests lie in **data-centric AI**. Recently, I focus on the following topics:

- Learning from Crowds (Learning from Multiple Annotators)

- Dataset Condensation (Dataset Distillation)

- Coreset Selection

EDUCATION

Institute of Information Engineering, Chinese Academy of Sciences, China   *09/2021 – present*
Ph.D. Candidate in Applied Computer Technology
Advised by Prof. Shiming Ge [Google Scholar]

North China Electric Power University, China   *09/2017 – 06/2021*
B.Sc. in School of Mathematics and Physics   *Rank 1st in 51*
Advised by Prof. Lei Wang [Google Scholar]

PUBLICATIONS

Ph.D. Candidate

- **M3D: Dataset Condensation by Minimizing Maximum Mean Discrepancy**.
  Hansong Zhang, Shikun Li, Pengju Wang, Dan Zeng, Shiming Ge.
  *AAAI Conference on Artificial Intelligence (**AAAI**), 2024.*

- **Coupled Confusion Correction: Learning from Crowds with Sparse Annotations**.
  Hansong Zhang, Shikun Li, Dan Zeng, Chenggang Yan, Shiming Ge.
  *AAAI Conference on Artificial Intelligence (**AAAI**), 2024.*

- **Estimating Noise Transition Matrix with Label Correlations for Noisy Multi-Label Learning**.
  Shikun Li, Xiaobo Xia, **Hansong Zhang**, Yibing Zhan, Shiming Ge, Tongliang Liu.
  *Annual Conference on Neural Information Processing Systems (**NeurIPS**), 2022.*

- **DANCE: Dual-View Distribution Alignment for Dataset Condensation**.
  Hansong Zhang, Shikun Li, Fanzhao Lin, Weiping Wang, Zhenxing Qian, Shiming Ge.
  Under Review.

Undergraduate

- **Mechanisms of stationary converted waves and their complexes in the multi-component AB system**.
  Hansong Zhang, Lei Wang, Wenrong Sun, Xin Wang, Tao Xu.
  *Physica D: Nonlinear Phenomena (**Physica D**), 2021.*

- **Transformed nonlinear waves, state transitions and modulation instability in a three-component AB model for the geophysical flows**.
  Hansong Zhang, Lei Wang, Xin Wang, Xiyang Xie.
  *Nonlinear Dynamics (**ND**), 2020.*

AWARDS AND HONORS

- Excellent Undergraduate Graduation Thesis, Beijing. Education Commission of Beijing.   *2021*

- Regular Institutions of Higher Education Outstanding Graduate, Beijing. Education Commission of Beijing.   *2021*