

Bo Miao

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ACADEMIC OBJECTIVE

Deep Learning, Computer Vision, Self-supervised Learning, Video Segmentation

EDUCATION

The University of Western Australia, Perth, Australia

Jan. 2021-Current

Ph.D. student in Computer Science (CS)

Dissertation: Propagating Spatio-temporal Information for Video Segmentation

University of Jinan, Jinan, China

Sept. 2015-Jun. 2018

Master's Degree in Signal and Information Processing (EE) GPA: 87.2/100

Dissertation: Research on Classification of ADHD Based on Feature Selection in Resting-state fMRI.

PROFESSIONAL EXPERIENCES

Research Assistant, The Chinese University of Hong Kong, Shenzhen, China

05/2020-12/2020

Robotics & Artificial Intelligence Laboratory Supervisor: Assistant Professor Tin Lun Lam

- Carried out indoor scene recognition based on scene parsing and attention mechanism;
- Carried out video anomaly detection based on self-supervised learning and memory networks.

Recommendation System Algorithm Engineer, SINA Weibo, China

07/2018-09/2019

Machine Learning R&D Department

- Carried out video recognition to label the Micro-blogs using PyTorch;
- Implemented personalized recommendation of Micro-blogs using C++;
- Carried out million level Micro-Blogs data processing and provided features for recommendation engine using Storm;
- Found hotspots of Micro-blogs through data mining;
- Statisticized Micro-Blog data performance of various aspects using MySQL, Hive, Redis and Kafka.

PUBLICATIONS

Conference:

- **Bo Miao**, Liguang Zhou, Ajmal Mian, Tin Lun Lam, Yangsheng Xu, "Object-to-Scene: Learning to Transfer Object Knowledge to Indoor Scene Recognition", *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2021. **CORE RANK A**
- **Bo Miao**, Junling Guan, Liangliang Zhang, Qingfang Meng, Yulin Zhang, "Automated epileptic seizure detection method based on the multi-attribute EEG feature pool and mRMR feature selection method", *International Conference on Computational Science (ICCS)*, 2019. **CORE RANK A**
- **Bo Miao**, Yulin Zhang, "A Feature Selection Method for Classification of ADHD", *International Conference on Information, Cybernetics and Computational Social Systems (ICCSS)*, 2017. **Best Paper**

Journal:

- **Bo Miao**, L. L. Zhang, J. L. Guan, Q. F. Meng, Y. L. Zhang, "Classification of ADHD individuals and neurotypicals using reliable RELIEF: A resting-state study", *IEEE Access*, 2019.

LANGUAGE

Language: Mandarin (native), TOEFL (97, R25, L25, S21, W26)

PROFESSIONAL ACTIVITIES

Reviewer: IROS, IEEE Access, Biomedical Engineering Online, IET Image Processing