SONGTAO YE

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EDUCATION

Xi'an University of Architecture and Technology 09/2018 – 07/2021
Master of Control Engineering Xi'an, China
Main courses: *machine learning, deep learning, data fusion*

Xi'an University of Architecture and Technology ***Bachelor of Automation*** 09/2014 – 07/2018
Bachelor of engineering in Automation Xi'an, China
Main courses: *principles of automatic control, C/C++*

WORK EXPERIENCE

Geovis Technology Co.,Ltd. 06/2022 – Present
Machine Learning Engineer Xi'an, China

- Utilize artificial intelligence technology to conduct research on the field of geographic information
- Research on multi-source information fusion algorithms for remote sensing image processing
- Technologies use: PyTorch, C/C++, Numpy

Zhijiang Laboratory 09/2021 – 05/2022
Research Engineer Hangzhou, China

- Utilized belief function models to decompose and to denoise signals from underwater fiber optic sensors
- Applied and obtained two patents:
  (1) A method and device for processing ϕ–OTDR underwater acoustic signals based on adaptive VMD
  (2) A method and device for identifying underwater acoustic signals using deep learning
- Technologies used: PyTorch, Numpy

Pazhou Laboratory 10/2020 – 09/2021
Research Intern Guangzhou, China

- Led a team of 8 interns in an intelligent manufacturing project
- Developed and maintain virtual-real twin simulation software *XAVSROP* to guide industrial robots for industrial production, e.g. palletizer, sorting and welding
- Technologies used: PyTorch, C/C++, QT

SKILLS

Languages: English (TOEFL 97/120, proficient reading and writing), Chinese (native speaker)
Programming: Python (NumPy, SciPy, Matplotlib, Pandas), PyTorch, MATLAB, Java, C++
Others: LaTeX, Ubuntu, git, ssh, tmux, vim, markdown

PUBLICATIONS

Published

- Z. Zhang, **S. Ye**, Y. Zhang, and W. Ding. "Deep Hyperspherical Clustering for Skin Lesion Medical Image Segmentation", *IEEE Journal of Biomedical and Health Informatics*, 2023, accept. (IF:7.021)
- Z. Zhang, **S. Ye**, Z. Liu, H. Wang and W. Ding. "Belief Combination of Classifiers for Incomplete Data", *IEEE/CAA Journal of Automatica Sinica*, vol. 9, no. 4, pp. 652–667, 2022. (IF: 7.847)

Preparing

- "Deep Cluster Analysis in Multisphere Space", processing.

MACHINE LEARNING RELATED COMPETITIONS

- 2022 Shell AI EV Charging Challenge Ranked: 6/1460
- 2020 iQIYI iCartoonFace Challenge in IJCAI 2020 Ranked: 14/481
- 2020 AICity Challenge in CVPR 2020 Ranked: 28/–