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Academic Qualification:

Ph.D. in Computational Mathematics, Huazhong University of Science and Technology,
Bachelor in Statistics, Huazhong University of Science and Technology, China, 2011

Teaching Area

B.Sc. Courses

Calculus, Linear Algebra, Probability and Statistics, Numeric Calculation

M.Sc. Courses

Numerical linear algebra. Machine learning

Research Area

Machine learning, image processing and high-dimensional data analysis

Working Experience

Aug. 2022 - present: Assistant Professor, Macau University of Science and Technology

Jul. 2016 - Aug. 2022: Lecturer, Wuhan University of Technology

Aug. 2019 - Dec 2019: Visiting scholar, University of Macau

Feb. 2015 - May 2019: Visiting scholar, University of Iceland

Academic Publication (selected)

F. Xue, F. Tan, Z. Ye*, J. Chen & Y. Wei, Spectral-spatial classification of hyperspectral images using improved functional principal component analysis. *IEEE Geoscience and Remote Sensing Letters*. 2022. 19: 55071105.

H. Li, H. Huang, Z. Ye, & H. Li, Hyperspectral image classification using adaptive weighted quaternion Zernike moments, *IEEE Transactions on Signal Processing*, 2022, 70: 701-713.

Z. Ye, T. Qian, L. Zhang*, H. Li, L. Dai & J. A. Benediktsson, Functional feature extraction for hyperspectral image classification with adaptive rational function approximation. *IEEE Transactions on Geoscience and Remote Sensing*. 2021. 59(9). 7680–7694.

X. Zhang, Y. Wei, H. Yao, Z. Ye, Y. Zhou & Y. Zhao. Locally homogeneous covariance matrix representation for hyperspectral image classification. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*. 2021. 14: 9396–9407.

Z. Ye, J. Chen, H. Li, Y. Wei*, G. Xiao & J. A. Benediktsson, Supervised functional data discriminant analysis for hyperspectral image classification. *IEEE Transactions on Geoscience and Remote Sensing*. 2020. 58(2): 841-851.

L. Dai, Z. Ye, L. Zhang & T. Qian. A novel text encryption algorithm based on core adaptive fourier decomposition, *Proceedings of the 2019 2nd International Conference on Algorithms, Computing and Artificial Intelligence*. 2019: 491-497.

Z. Ye, H. Li*, Y. Song, J. A. Benediktsson & Y. Y Tang, Hyperspectral image classification using principal components-based smooth ordering and multiple 1D interpolation, *IEEE Transactions on Geoscience and Remote Sensing*. 2017. 55(2): 1199-1209.

Z. Ye, H. Li*, Y. Song, J. Wang & J. A. Benediktsson, A novel semi-supervised learning framework for hyperspectral image classification, *International Journal of Wavelets Multiresolution and Information Processing*. 2016. 14(2): 1640005.

H. Li, Z. Ye* & G. Xiao, Hyperspectral image classification using spectral-spatial composite kernels discriminant analysis, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*. 2015. 8(6): 2341-2350.