

BIN DENG

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Research Interests

Machine Learning, Pattern Recognition, Computer Vision, Image Processing

Education

South China University of Technology, Guangzhou <i>PhD in Information and Communication Engineering</i>	Sep. 2020 – Now
Shenzhen University, Shenzhen <i>MEng in Pattern Recognition and Intelligent System</i>	Sep. 2015 – Jun. 2018
South China Agricultural University, Guangzhou <i>BSc in Information and Computing Science</i>	Sep. 2011 – Jun. 2015

Experience

Kazan Federal University <i>Exchange Study</i>	Dec. 2016 – Feb. 2017 Kazan
Shenzhen University <i>Research Assistant</i>	Jul. 2018 – May 2019 Shenzhen
South China University of Technology <i>Research Assistant</i>	May 2019 – Aug. 2020 Guangzhou

Honors and Awards

Excellent Graduates	2018
Excellent Students of Guangdong Province	2018
National Scholarship	2017
Third Prize in National College Student Mathematics Competition	2012

Professional Services

Journal Reviewer: IEEE TIP, TMLR, IEEE J-STARS, IEEE GRSL
Conference Reviewer: ICML(2023), NeurIPS(2023), ICCV(2023), ICLR(2024), CVPR(2024)

Publication: Pre-prints

Bin Deng and Kui Jia. Universal Domain Adaptation from Foundation Models: A Baseline Study link	May 2023
Bin Deng , Yabin Zhang, Hui Tang, Changxing Ding, Kui Jia [†] . On Universal Black-Box Domain Adaptation link	Apr. 2021
Bin Deng , Yabin Zhang, Kui Jia. DETECT: A Deep Discriminative Clustering Baseline for Unsupervised and Universal Domain Adaptation link	Jun. 2020

Publication: Journal (*equal contribution, [†]supervisor)

Bin Deng and Kui Jia [†] . Counterfactual Supervision-Based Information Bottleneck for Out-of-Distribution Generalization. <i>Entropy</i> . Publication link	Jan. 2023
Yabin Zhang*, Bin Deng *, Hui Tang, Lei Zhang, Kui Jia [†] . Unsupervised Multi-Class Domain Adaptation: Theory, Algorithms, and Practice. <i>TPAMI</i> . Publication link	Nov. 2020
Bin Deng , Sen Jia, Daming Shi. Deep Metric Learning-Based Feature Embedding for Hyperspectral Image Classification. <i>TGRS</i> Publication link	Sep. 2019
Sen Jia [†] , Zhijie Lin, Bin Deng , Jiasong Zhu, Qingquan Li. Cascade Superpixel Regularized Gabor Feature Fusion for Hyperspectral Image Classification. <i>TNNLS</i> Publication link	Feb. 2019

Sen Jia [†] , Bin Deng , Jiasong Zhu, Xiuping Jia, Qingquan Li. Local Binary Pattern-Based Hyperspectral Image Classification With Superpixel Guidance. <i>TGRS</i> Publication link	Oct. 2017
Sen Jia [†] , Bin Deng , Jiasong Zhu, Xiuping Jia, Qingquan Li. Superpixel-Based Multitask Learning Framework for Hyperspectral Image Classification. <i>TGRS</i> Publication link	Jan. 2017
Sen Jia [†] , Bin Deng , Qiang Huang. An efficient superpixel-based sparse representation framework for hyperspectral image classification. <i>IJVML</i> Publication link	Jun. 2017
Publication: Conference ([†]supervisor)	
Yabin Zhang, Bin Deng , Kui Jia [†] , Lei Zhang. Label Propagation with Augmented Anchors: A Simple Semi-supervised Learning Baseline for Unsupervised Domain Adaptation. In <i>ECCV</i> . Publication link	Oct. 2020
Zhijie Lin, Sen Jia [†] , Bin Deng . Multi-Task Embedded Convolutional Neural Network for Hyperspectral Image Classification. In <i>ICME</i> . Publication link	Jul. 2019
Bin Deng and Daming Shi. Relation Network for Hyperspectral Image Classification. In <i>ICMEW</i> . Publication link	Jul. 2019
Sen Jia [†] , Bin Deng , Huimin Xie, Lin Deng. A Gabor feature fusion framework for hyperspectral imagery classification. In <i>ICIP</i> . Publication link	Sep. 2017
Sen Jia [†] , Bin Deng . An Efficient Gabor Feature-Based Multi-task Joint Support Vector Machines Framework for Hyperspectral Image Classification. In <i>CCPR</i> . Publication link	Oct. 2016
Sen Jia [†] , Bin Deng . Superpixel-level sparse representation-based classification for hyperspectral imagery. In <i>IGARSS</i> . Publication link	Jul. 2016
Patents ([†]supervisor)	
Sen Jia [†] , Bin Deng , Jiasong Zhu, Lin Deng, Qingquan Li. A Method and Apparatus for Image Fusion-based Classification. <i>Authorization Number: CN109472199B</i> .	2022
Sen Jia [†] , Bin Deng , Lin Deng. A Method and System for Hyperspectral Image Classification Based on Superpixel-level Information Fusion. <i>Authorization Number: CN106469316B</i> .	2020