

BIN DENG

☎ (+86)13728903043 ✉ ebindeng@mail.scut.edu.cn 🏠 HomePage (bindeng.xyz)

Research Interests

Machine Learning, Pattern Recognition, Computer Vision, Image Processing

Education

South China University of Technology, Guangzhou Sep. 2020 – Now

PhD in Information and Communication Engineering

Shenzhen University, Shenzhen Sep. 2015 – Jun. 2018

MEng in Pattern Recognition and Intelligent System

South China Agricultural University, Guangzhou Sep. 2011 – Jun. 2015

BSc in Information and Computing Science

Experience

Kazan Federal University Dec. 2016 – Feb. 2017

Exchange Study Kazan

Shenzhen University Jul. 2018 – May 2019

Research Assistant Shenzhen

South China University of Technology May 2019 – Aug. 2020

Research Assistant Guangzhou

Honors and Awards

Outstanding Communist Party Member of South China University of Technology 2023

Excellent Graduates 2018

Outstanding Student of Guangdong Province (Graduate Level) 2018

National Scholarship 2017

Third Prize in National College Student Mathematics Competition (Mathematics Category) 2012

Professional Services

Journal Reviewer: IEEE TIP, TMLR, IEEE TGRS, IEEE J-STARS, IEEE GRSL

Conference Reviewer: ICML(2023, 2024), NeurIPS(2023), ICCV(2023), ICLR(2024), CVPR(2024), ECCV(2024)

Publication: Pre-prints

Bin Deng and Kui Jia. Universal Domain Adaptation from Foundation Models: A Baseline Study | [link](#) 2023

Bin Deng, Yabin Zhang, Hui Tang, Changxing Ding, Kui Jia[†]. On Universal Black-Box Domain Adaptation | [link](#) 2021

Bin Deng, Yabin Zhang, Kui Jia. DETECT: A Deep Discriminative Clustering Baseline for Unsupervised and Universal Domain Adaptation | [link](#) 2020

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

Bin Deng and Kui Jia[†]. Counterfactual Supervision-Based Information Bottleneck for Out-of-Distribution Generalization. *Entropy*. | SCI | [Publication link](#) 2023

Yabin Zhang*, **Bin Deng***, Hui Tang, Lei Zhang, Kui Jia[†]. Unsupervised Multi-Class Domain Adaptation: Theory, Algorithms, and Practice. *TPAMI*. | SCI, IF=23.6 | [Publication link](#) 2022

Bin Deng, Sen Jia, Daming Shi. Deep Metric Learning-Based Feature Embedding for Hyperspectral Image Classification. *TGRS*. | SCI, IF=8.2 | [Publication link](#) 2020

- Sen Jia[†], Zhijie Lin, **Bin Deng**, Jiasong Zhu, Qingquan Li. Cascade Superpixel Regularized Gabor Feature Fusion for Hyperspectral Image Classification. *TNNLS*. | SCI, IF=10.4 | [Publication link](#) **2020**
- Sen Jia[†], **Bin Deng**, Jiasong Zhu, Xiuping Jia, Qingquan Li. Local Binary Pattern-Based Hyperspectral Image Classification With Superpixel Guidance. *TGRS*. | SCI, IF=8.2 | [Publication link](#) **2018**
- Sen Jia[†], **Bin Deng**, Jiasong Zhu, Xiuping Jia, Qingquan Li. Superpixel-Based Multitask Learning Framework for Hyperspectral Image Classification. *TGRS*. | SCI, IF=8.2 | [Publication link](#) **2017**
- Sen Jia[†], **Bin Deng**, Qiang Huang. An efficient superpixel-based sparse representation framework for hyperspectral image classification. *IJVML*. | SCI | [Publication link](#) **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 *ECCV*. | EI | [Publication link](#) **2020**
- Zhijie Lin, Sen Jia[†], **Bin Deng**. Multi-Task Embedded Convolutional Neural Network for Hyperspectral Image Classification. In *ICME*. | EI | [Publication link](#) **2019**
- Bin Deng** and Daming Shi. Relation Network for Hyperspectral Image Classification. In *ICMEW*. | EI | [Publication link](#) **2019**
- Sen Jia[†], **Bin Deng**, Huimin Xie, Lin Deng. A Gabor feature fusion framework for hyperspectral imagery classification. In *ICIP*. | EI | [Publication link](#) **2017**
- Sen Jia[†], **Bin Deng**. An Efficient Gabor Feature-Based Multi-task Joint Support Vector Machines Framework for Hyperspectral Image Classification. In *CCPR*. | EI | [Publication link](#) **2016**
- Sen Jia[†], **Bin Deng**. Superpixel-level sparse representation-based classification for hyperspectral imagery. In *IGARSS*. | EI | [Publication link](#) **2016**
- Patents (†supervisor)**
-
- Sen Jia[†], **Bin Deng**, Jiasong Zhu, Lin Deng, Qingquan Li. A Method and Apparatus for Image Fusion-based Classification. *Authorization Number: CN109472199B*. **2022**
- Sen Jia[†], **Bin Deng**, Lin Deng. A Method and System for Hyperspectral Image Classification Based on Superpixel-level Information Fusion. *Authorization Number: CN106469316B*. **2020**