

BIN DENG

☎ (+86)13728903043 ✉ eebindeng@mail.scut.edu.cn 🏠 [HomePage \(bindeng.xyz\)](http://Homepage(bindeng.xyz))

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)

Publication: Pre-prints ([†]supervisor)

Bin Deng and Kui Jia [†] . Universal Domain Adaptation from Foundation Models 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. *TGRS* | [Publication link](#) **Oct. 2017**

Sen Jia[†], **Bin Deng**, Jiasong Zhu, Xiuping Jia, Qingquan Li. Superpixel-Based Multitask Learning Framework for Hyperspectral Image Classification. *TGRS* | [Publication link](#) **Jan. 2017**

Sen Jia[†], **Bin Deng**, Qiang Huang. An efficient superpixel-based sparse representation framework for hyperspectral image classification. *IJVML* | [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 *ECCV*. | [Publication link](#) **Oct. 2020**

Zhijie Lin, Sen Jia[†], **Bin Deng**. Multi-Task Embedded Convolutional Neural Network for Hyperspectral Image Classification. In *ICME*. | [Publication link](#) **Jul. 2019**

Bin Deng and Daming Shi. Relation Network for Hyperspectral Image Classification. In *ICMEW*. | [Publication link](#) **Jul. 2019**

Sen Jia[†], **Bin Deng**, Huimin Xie, Lin Deng. A Gabor feature fusion framework for hyperspectral imagery classification. In *ICIP*. | [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 *CCPR*. | [Publication link](#) **Oct. 2016**

Sen Jia[†], **Bin Deng**. Superpixel-level sparse representation-based classification for hyperspectral imagery. In *IGARSS*. | [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. *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**