

DR. YICONG ZHOU

Professor, SPIE Fellow

Department of Computer and Information Science,

University of Macau, Macau, China

Email: yicongzhou@um.edu.mo,Webpage: <https://www.fst.um.edu.mo/personal/yicongzhou/>**Highlights:**

- Fellow of SPIE (the Society of Photo-Optical Instrumentation Engineers), 2021.
- "Highly Cited Researcher", Clarivate, 2020--2021, 2023--2024.
- "Top Cited Scholar", Scilit, 2023--2024
- "Highly Ranked Scholar – Prior Five Years", ScholarGPS, 2022
- "World's Top 2% Scientist", 2020 -- 2024.
- Second prize of CCA Natural Science Award, 2022
- "2019 China Top 100 Most Influential Articles".
- Third prize of Macao Natural Science Award as a co-winner in 2014 and as a sole winner in 2020 and 2024
- 330+ published articles (140+ in IEEE transactions, 2 "Hot Papers" and 25 "Highly Cited Papers")
- Leading co-Chair of *IEEE SMC Technical Committee on Cognitive Computing* since 2015.
- Senior Area Editor for TCSVT
- Associate Editor for three IEEE Transactions (TCYB, TNNLS, TGRS)
- Best Editor Award twice in *Journal of Visual Communication and Image Representation* in 2019 and 2021.

Education

- **Ph. D.** in Electrical Engineering, Tufts University, Medford MA, USA
- **M. S.** in Electrical Engineering, Tufts University, Medford MA, USA
- **B. S.** in Electrical Engineering, Hunan University, Changsha, China

Professional Experience

- Professor, University of Macau, Macau, China, 8/2021 -- present
- Associate Professor, University of Macau, Macau, China, 8/2016 – 08/2021
- Assistant Professor, University of Macau, Macau, China, 9/2011 – 08/2016
- Research/Teaching Assistant, Tufts University, Boston, USA, 8/2006 -- 8/2010
- Teaching Assistant and Lecturer, Hunan University, Changsha, China, 1/1994 -- 12/2003

Research Interests

Remote Sensing Imaging, Computer Vision, Pattern Recognition, and Artificial Intelligence

Professional Affiliations

- Fellow of SPIE (the Society of Photo-Optical Instrumentation Engineers), 2021--present
- Senior Member of IEEE, 2014--present

Professional Activities

- **Senior Area Editor:**
 - *IEEE Transactions on Circuits and Systems for Video Technology*, 2024--present
- **Associate Editors:**

- *IEEE Transactions on Cybernetics*, 2022--present
- *IEEE Transactions on Neural Networks and Learning Systems*, 2019--present
- *IEEE Transactions on Geoscience and Remote Sensing*, 2019--present
- *IEEE Transactions on Circuits and Systems for Video Technology*, 2019--2023
- *Signal Processing*, 2018--2022
- *Signal Processing: Image Communication*, 2017--2022
- *Journal of Visual Communication and Image Representation*, 2016--2022
- *Neurocomputing*, 2016--2021
- *Journal of Radiology and Diagnostic Imaging*, 2013--2015
- **Guest Editors:**
 - *Journal of Applied Remote Sensing*, 2019
 - *Remote Sensing*, 2018
 - *International Journal of Biomedical Imaging*, 2015
- **Chair:** *IEEE SMC Technical Committee on Cognitive Computing*, 2015--present
- **Program Chair:**
 - International Conference Computer Graphics, Imaging and Visualization (CGiV2013), 2013
- **Area Chairs:**
 - ACM International Conference on Multimedia (ACMMM), 2023--present
 - IEEE International Conference on Image Processing (ICIP), 2019--present
 - IEEE International Conference on Multimedia and Expo (ICME), 2021--present
- **Senior Program Committee Member:**
 - International Conference on Neural Information Processing (ICONIP), 2020
- **Program Committee Members:**
 - AAAI Conference on Artificial Intelligence (AAAI), 2020--present
 - IEEE International Conference on Systems, Man, and Cybernetics (SMC), 2012--present
 - SPIE Mobile Multimedia/Image Processing, Security, and Applications, 2013--2019
 - IEEE International Conference on Computer Supported Cooperative Work in Design, 2015--2018
- **Official Nominator of “VinFuture Prize”,** VinFuture Prize Foundation, 2021--present
- **Government Grant Reviewer:**
 - National Science Center of Poland, 2017--2021
 - Research Grants Council of Hong Kong, 2020--present
- **Strategy Consulting Committee Member**
 - Basic Research Fund of Guangdong Province for Fundamentals and Applications, 2020--present
- **SPIE Scholarship Committee Member**, 2015--2019

Awards and Recognitions

- Hubei Natural Science Award, send prize, *Hubei Province Government*, 2023
- CCA Natural Science Award, second prize, *China Association of Automation (CCA)*, 2022
- Highly Cited Researcher, *Clarivate*, 2020--2021, 2023--2024
- Top Cited Scholar, *Scilit*, 2023--2024
- Highly Ranked Scholar – Prior Five Years, *ScholarGPS*, 2022

- World's Top 2% Scientist, *Stanford University Releases List*, 2020--present.
- 2019 China Top 100 Most Influential Articles (Article no. 25), 2020
- Macao Natural Science Award, third prize, *Macao SAR Government*, 2014 (Co-winner), 2020 and 2024 (Sole winner)
- Best Editor Award, *Journal of Visual Communication and Image Representation*, 2019, 2021.
- Most Active SMC Technical Committee Award, *IEEE Systems, Man, and Cybernetics Society*, 2020
- Incentive Scheme for Outstanding Academic Staff, *University of Macau*, 2020
- FST Research Excellence Award, *Faculty of Science and Technology, University of Macau*, 2017
- 25 "Highly Cited Papers", *Web of Science*
- 2 "Hot Paper", *Web of Science*

Funded Research Grants

External Grants:

- **PI**, "General Pre-training Large Models Technologies for Industry Vision", *Macau Science and Technology Development Fund*, 10/2024--10/2026.
- **PI**, "Remote Sensing Image Stitching Technologies in Quaternion Domain", *Macau Science and Technology Development Fund*, 12/2022--12/2025.
- **PI**, "Remote Sensing Information Encryption Technologies", *Beijing Talentwish Technology Limited*, 01/2022--12/2022.
- **PI**, "Applied Remote Sensing Technologies of Typical Region Ecological Environment", *Aerospace Information Research Institute, Chinese Academy of Science*, 06/2021--01/2023.
- **PI**, "Urban Object Classification Using Hyperspectral Satellite Remote Sensing Images", *Aerospace Information Research Institute, Chinese Academy of Science*, 03/2021--03/2022.
- **PI**, "Set-to-Sample-Transform-based Image Set Classification Technologies", *Macau Science and Technology Development Fund*, 05/2018--05/2021.
- **PI**, "Multimedia Encryption Technologies", *Macau Science and Technology Development Fund*, 01/2016--08/2018.
- **PI**, "Face Feature Extraction and Matching Technologies for Person Identification and Tracking", *Macau Science and Technology Development Fund*, 06/2014--09/2016.
- **PI**, "Novel and Robust Technologies for Image Encryption", *Macau Science and Technology Development Fund*, 01/2013--12/2015.

Internal Grants:

- **PI**, "Quantum-inspired Deep Learning Technologies for Hyperspectral Image Super-resolution", *The Research Committee of University of Macau*, 01/2025--12/2026.
- **PI**, "Color Image Stitching Technologies", *The Research Committee of University of Macau*, 01/2023--12/2024.
- **PI**, "Nonlinear Chaotic Operations with Hardware Implementation", *The Research Committee of University of Macau*, 01/2019--12/2021.
- **PI**, "Hyperspectral Image Classification Technologies", *The Research Committee of University of Macau*, 01/2017--12/2019.
- **PI**, "Parametric Discrete Orthogonal Transforms for Multimedia Encryption", *The Research Committee of University of Macau*, 04/2014--12/2017.
- **PI**, "Design and Implementation of a Novel Multimedia Security System for Network Camera-based Visual Surveillance Applications", *The Research Committee of University of Macau*, 01/2012--05/2015.
- **PI**, "Development of Multimedia Encryption Algorithms Using a New Chaotic System for Security and Medical Applications", *The Research Committee of University of Macau*, 01/2012--12/2012.

Publications

Google Scholar: <https://scholar.google.com/citations?hl=en&user=Fe5Ru58AAAAJ>

Journal Papers: (*corresponding author)

1. Tianjun Zhang, Lin Zhang, Fengyi Zhang, Shengjie Zhao, and Yicong Zhou, “I-DACS: Always Maintaining Consistency between Poses and the Field for Radiance Field Construction without Pose Prior”, **IEEE Transactions on Circuits and Systems for Video Technology**, in press, 2024.
2. Yuwu Lu, Dewei Lin, Linlin Shen, Yicong Zhou, and Jiahui Pan, “Heterogeneous Domain Adaptation via Correlative and Discriminative Feature Learning”, **IEEE Transactions on Multimedia**, in press, 2024.
3. Yang Chen, Lin Zhang, Shengjie Zhao, and Yicong Zhou, “ATM-NeRF: Accelerating Training for NeRF Rendering on Mobile Devices via Geometric Regularization”, **IEEE Transactions on Multimedia**, in press, 2024.
4. Zhongyun Hua, Zihua Wu, Yinxing Zhang, Han Bao, and Yicong Zhou, “Two-Dimensional Cyclic Chaotic System for Noise-Reduced OFDM-DCSK Communication”, **IEEE Transactions on Circuits and Systems I: Regular Papers**, in press, 2024.
5. Zheng Zhou, Yongyong Chen, and Yicong Zhou*, “Simultaneously Learning Deep Quaternion Reconstruction and Noise Convolutional Dictionary for Color Image Denoising”, **IEEE Transactions on Emerging Topics in Computational Intelligence**, in press, 2024.
6. Kaixin Chen, Lin Zhang, Zhong Wang, Shengjie Zhao, and Yicong Zhou, “Skeleton-aware Graph-based Adversarial Networks for Human Pose Estimation from Sparse IMUs”, **ACM Transactions on Multimedia Computing, Communications, and Applications**, in press, 2024.
7. Tianjun Zhang, Lin Zhang, Fengyi Zhang, Shengjie Zhao, and Yicong Zhou, “TES-CVIDS: A Transmission Efficient Submap Based Collaborative Dense VI-SLAM Framework”, **IEEE Transactions on Intelligent Vehicles**, in press, 2024.
8. Xiaojia Zhao, Qiangqiang Shen, Yongyong Chen, Yongsheng Liang, Junxin Chen, and Yicong Zhou, “Self-Completed Bipartite Graph Learning for Fast Incomplete Multi-View Clustering”, **IEEE Transactions on Circuits and Systems for Video Technology**, in press, 2023.
9. Jiaxue Li, and Yicong Zhou*, “Seam-Adaptive Structure-Preserving Image Stitching for Drone Images”, **IEEE Transactions on Geoscience and Remote Sensing**, 63, 5601412, 2025.
10. Yang Chen, Lin Zhang, Shengjie Zhao, and Yicong Zhou, “Online Indoor Visual Odometry with Semantic Assistance under Implicit Epipolar Constraints”, *Pattern Recognition*, 159, 111150, 2025.
11. Dongchen Han, Baodi Liu, Shuai Shao, Weifeng Liu, and Yicong Zhou, “Feature Aggregation and Connectivity for Object Re-identification”, *Pattern Recognition*, 157, 110869, 2025.
12. Yongshan Zhang, Jianwen Qi, Xinxin Wang, Zhihua Cai, Jiangtao Peng, and Yicong Zhou, “Tensorial Global-Local Graph Self-Representation for Hyperspectral Band Selection”, **IEEE Transactions on Circuits and Systems for Video Technology**, 34(12), 13213–13225, 2024.
13. Yunda Sun, Lin Zhang, Zhong Wang, Yang Chen, Shengjie Zhao, and Yicong Zhou, “I2P Registration by Learning the Underlying Alignment Feature Space from Pixel-to-Point Similarities”, **ACM Transactions on Multimedia Computing, Communications, and Applications**, 20(12), 388, 2024.
14. Tianyu Sun, Ben-Guo He, Junxin Chen, Haiyan Lu, Bo Fang, and Yicong Zhou, “Optimization of electric vehicle charging and scheduling based on VANETs”, *Vehicular Communications*, 50, 100857, 2024.
15. Zheng Zhou, Yue Wu, and Yicong Zhou*, “Consistent Arbitrary Style Transfer Using Consistency Training and Self-attention Module”, **IEEE Transactions on Neural Networks and Learning Systems**, 35(11), 16845–16856, 2024.
16. Yongyong Chen, Xiaojia Zhao, Zheng Zhang, Youfa Liu, Jingyong Su, and Yicong Zhou, “Tensor Learning Meets Dynamic Anchor Learning: From Complete to Incomplete Multi-View Clustering”, **IEEE Transactions on Neural Networks and Learning Systems**, 35(11), 15332–15345, 2024.
17. Qilin Yin, Wei Lu, Xiaochun Cao, Xiangyang Luo, Yicong Zhou, and Jiwu Huang, “Fine-Grained Multimodal DeepFake Classification via Heterogeneous Graphs”, **International Journal of Computer Vision**, 132(11), 5255–5269, 2024.
18. Baodi Liu, Shuai Shao, Chunyan Zhao, Lei Xing, Weifeng Liu, Weijia Cao, and Yicong Zhou, “Few-Shot Image Classification via Hybrid Representation”, *Pattern Recognition*, 155, 110640, 2024.

19. Kuiyuan Zhang, Zhongyun Hua, Yuanman Li, Yushu Zhang, and Yicong Zhou, “Uformer-ICS: A U-Shaped Transformer for Image Compressive Sensing Service”, **IEEE Transactions on Services Computing**, 17(5), 2974--2988, 2024.
20. Yongshan Zhang, Guozhu Jiang, Zhihua Cai, and Yicong Zhou*, “Bipartite Graph-based Projected Clustering with Local Region Guidance for Hyperspectral Imagery”, **IEEE Transactions on Multimedia**, 26, 9551--9563, 2024.
21. Kangdao Liu, Xiaolin Xiao, Jinkun You, and Yicong Zhou*, “Robust Discriminative t-Linear Subspace Learning for Image Feature Extraction”, **IEEE Transactions on Circuits and Systems for Video Technology**, 34(8), 7315--7327, 2024.
22. Zhen Qin, Yujie Chen, Guosong Zhu, Erqiang Zhou, Yingjie Zhou, Yicong Zhou, and Ce Zhu, “Enhanced Pseudo-Label Generation with Self-supervised Training for Weakly-supervised Semantic Segmentation”, **IEEE Transactions on Circuits and Systems for Video Technology**, 34(8), 7017--7028, 2024.
23. Yongshan Zhang, Yijiang Li, Xinxin Wang, Xinwei Jiang, and Yicong Zhou, “Stacked Graph Fusion Denoising Autoencoder for Hyperspectral Anomaly Detection”, **IEEE Geoscience and Remote Sensing Letters**, 21, 5507405, 2024.
24. Hong Chen, Youcheng Fu, Xue Jiang, Yanhong Chen, Weifu Li, Yicong Zhou, and Feng Zheng, “Gradient Learning with the Mode-induced Loss: Consistency Analysis and Applications”, **IEEE Transactions on Neural Networks and Learning Systems**, 35(7), 9686--9699, 2024.
25. Wei Lu, Lingyi Liu, Bolin Zhang, Junwei Luo, Xianfeng Zhao, Yicong Zhou, and Jiwu Huang, “Detection of Deepfake Videos Using Long Distance Attention”, **IEEE Transactions on Neural Networks and Learning Systems**, 35(7), 9366--9379, 2024.
26. Xin Li, Guopu Zhu, Shen Wang, Yicong Zhou, and Xinpeng Zhang, “Deep Reverse Attack on SIFT Features with a Coarse-to-Fine GAN Model”, **IEEE Transactions on Circuits and Systems for Video Technology**, 34(7), 6391--6402, 2024.
27. Min Shi, Shaowen Lin, Qingming Yi, Jian Weng, Aiwen Luo, and Yicong Zhou, “Lightweight Context-Aware Network Using Partial-Channel Transformation for Real-Time Semantic Segmentation”, **IEEE Transactions on Intelligent Transportation Systems**, 25(7), 7401--7416, 2024. ([Highly Cited Paper](#))
28. Zhong Wang, Lin Zhang, Shengjie Zhao, and Yicong Zhou, “Ct-LVI: A Framework Towards Continuous-time Laser-Visual-Inertial Odometry and Mapping”, **IEEE Transactions on Circuits and Systems for Video Technology**, 34(6), 4378--4391, 2024.
29. Aiwen Luo, Sandip Bhattacharya, Mitiko Miura-Mattausch, Yicong Zhou, and Hans J. Mattausch, “Real-Time Surface Identification System for Variable Walking Speeds of Biped Robots”, **IEEE Embedded Systems Letters**, 16(2), 130--133, 2024.
30. Zhong Wang, Lin Zhang, Shengjie Zhao, and Yicong Zhou, “Global Localization in Large-scale Point Clouds via Roll-pitch-yaw Invariant Place Recognition and Low-overlap Global Registration”, **IEEE Transactions on Circuits and Systems for Video Technology**, 34(5), 3846--3859, 2024.
31. Jinkun You, and Yicong Zhou*, “Two-Stage Watermark Removal Framework for Spread Spectrum Watermarking”, **IEEE Transactions on Multimedia**, 26, 7687--7699, 2024.
32. Si-Chao Lei, Yue-Jiao Gong, Xiaolin Xiao, Yicong Zhou, and Jun Zhang, “Tensorial Evolutionary Optimization for Natural Image Matting”, **ACM Transactions on Multimedia Computing, Communications, and Applications**, 20(7), 194, 2024.
33. Benxin Zhang, Guopu Zhu, Zhibin Zhu, Hongli Zhang, Yicong Zhou, and Sam Kwong, “Impulse Noise Image Restoration Using Nonconvex Variational Model and Difference of Convex Functions Algorithm”, **IEEE Transactions on Cybernetics**, 54(4), 2257--2270, 2024.
34. Jiaxue Li, and Yicong Zhou*, “Automatic Quaternion-Domain Color Image Stitching”, **IEEE Transactions on Image Processing**, 33, 1299--1312, 2024.
35. Xingyu Liu, Zhongyun Hua, Shuang Yi, Yushu Zhang, and Yicong Zhou, “Bi-directional Block Encoding for Reversible Data Hiding over Encrypted Images”, **ACM Transactions on Multimedia Computing, Communications, and Applications**, 20(5), 149, 2024.
36. Jiafeng Huang, Tianjun Zhang, Shengjie Zhao, Lin Zhang, and Yicong Zhou, “An Underwater Organism Image Dataset and A Lightweight Module Designed for Object Detection Networks”, **ACM Transactions on Multimedia Computing, Communications, and Applications**, 20(5), 147, 2024.

37. Chengrui Zhang, Junxin Chen, Dongming Chen, Wei Wang, Yushu Zhang, and Yicong Zhou, “Exploiting Substitution Box for Cryptanalyzing Image Encryption Schemes with DNA Coding and Nonlinear Dynamics”, **IEEE Transactions on Multimedia**, 26, 1114--1128, 2024.
38. Yao Lu, Le Zhang, Xiaofei Yang, and Yicong Zhou*, “Efficient Harmonic Neural Networks with Compound Discrete Cosine Transform filters and Shared Reconstruction Filters”, **IEEE Transactions on Neural Networks and Learning Systems**, 35(1), 693--707, 2024.
39. He Wang, Lianhong Wang, Hua Chen, Xiaoyao Li, Xiaogang Zhang, and Yicong Zhou, “Waste-YOLO: Towards High Accuracy Real-time Abnormal Waste Detection in Waste-to-Energy Power Plant for Production Safety”, *Measurement Science and Technology*, 35(1), 016001, 2024.
40. Xiaofei Yang, Weijia Cao, Yao Lu, and Yicong Zhou*, “QTN: Quaternion Transformer Network for Hyperspectral Image Classification”, **IEEE Transactions on Circuits and Systems for Video Technology**, 33(12), 7370--7384, 2023.
41. Baodi Liu, Lifei Zhao, Shuai Shao, Weifeng Liu, Dapeng Tao, Weijia Cao, and Yicong Zhou, “RAN: Region-Aware Network for Remote Sensing Image Super-Resolution”, **IEEE Transactions on Geoscience and Remote Sensing**, 61, 5408113, 2023.
42. Si-Chao Lei, Yue-Jiao Gong, Xiaolin Xiao, Yicong Zhou, and Jun Zhang, “Boosting Diversity in Visual Search with Pareto Non-Dominated Re-Ranking”, **ACM Transactions on Multimedia Computing, Communications, and Applications**, 20(3), 79, 2023.
43. Kuiyuan Zhang, Zhongyun Hua, Yuanman Li, Yongyong Chen, and Yicong Zhou, “AMS-Net: Adaptive Multi-Scale Network for Image Compressive Sensing”, **IEEE Transactions on Multimedia**, 25, 5676--5689, 2023.
44. Xiaolin Yin, Shaowu Wu, Ke Wang, Wei Lu, Yicong Zhou, and Jiwu Huang, “Anti-rounding Image Steganography with Separable Fine-tuned Network”, **IEEE Transactions on Circuits and Systems for Video Technology**, 33(11), 7066--7079, 2023.
45. Fei Peng, Tongxin Liao, Min Long, Jin Li, Wensheng Zhang, and Yicong Zhou, “Semi-fragile Reversible Watermarking for 3D Models Using Spherical Crown Volume Division”, **IEEE Transactions on Circuits and Systems for Video Technology**, 33(11), 6531--6543, 2023.
46. Feng Ding, Zhangyi Shen, Guopu Zhu, Sam Kwong, Yicong Zhou, and Siwei Lyu, “ExS-GAN: Synthesizing Anti-forensics Images via Extra Supervised GAN”, **IEEE Transactions on Cybernetics**, 53(11), 7162--7173, 2023.
47. Yinxing Zhang, Zhongyun Hua, Han Bao, Hejiao Huang, and Yicong Zhou, “Generation of n -Dimensional Hyperchaotic System Using Gershgorin-Type Theorem and its Application”, **IEEE Transactions on Systems, Man and Cybernetics: Systems**, 53(10), 6516--6529, 2023.
48. Xiaobin Wang, Wenzong Jiang, Lei Xing, Shuai Shao, Weifeng Liu, Yanjiang Wang, Weijia Cao, Baodi Liu, and Yicong Zhou, “Multi-scale Feature Fusion Kernel Estimation with Masked Interpolation Loss for Real-world Remote Sensing Images Super-resolution”, *International Journal of Remote Sensing*, 44(18), 5597--5627, 2023.
49. Zhong Wang, Lin Zhang, Ying Shen, and Yicong Zhou, “D-LIOM: Tightly-coupled Direct LiDAR-Inertial Odometry and Mapping”, **IEEE Transactions on Multimedia**, 25, 3905--3920, 2023.
50. Zheng Zhou, Yongyong Chen, and Yicong Zhou*, “Deep Dynamic Memory Augmented Attentional Dictionary Learning for Image Denoising”, **IEEE Transactions on Circuits and Systems for Video Technology**, 33(9), 4784--4797, 2023.
51. Tingting Xu, Xiaoyu Kong, Qiangqiang Shen, Yongyong Chen, and Yicong Zhou, “Deep and Low-Rank Quaternion Priors for Color Image Processing”, **IEEE Transactions on Circuits and Systems for Video Technology**, 33(7), 3119--3132, 2023.
52. Yang Chen, Lin Zhang, Ying Shen, Brian Nlong Zhao, and Yicong Zhou, “Extrinsic Self-calibration of the Surround-view System: A Weakly Supervised Approach”, **IEEE Transactions on Multimedia**, 25, 1622--1635, 2023.
53. Min Shi, Jialin Shen, Qingming Yi, Jian Weng, Zunkai Huang, Aiwen Luo, and Yicong Zhou, “LMFFNet: A Well-Balanced Lightweight Network for Fast and Accurate Semantic Segmentation”, **IEEE Transactions on Neural Networks and Learning Systems**, 34(6), 3205--3219, 2023.
54. Shuai Shao, Lei Xing, Baodi Liu, Yanjiang Wang, Weifeng Liu, and Yicong Zhou, “Attention-based Multi-View Feature Collaboration for Decoupled Few-Shot Learning”, **IEEE Transactions on Circuits and Systems for Video Technology**, 33(5), 2357--2369, 2023.

55. Yulan Zhang, Guopu Zhu, Xing Wang, Xiangyang Luo, Yicong Zhou, Hongli Zhang, and Ligang Wu, “CNN-Transformer Based Generative Adversarial Network for Copy-Move Source/Target Distinguishment”, **IEEE Transactions on Circuits and Systems for Video Technology**, 33(5), 2019--2032, 2023.
56. Xiaoyao Li, Lianhong Wang, Yicong Zhou, and Jing Zhang, “Image Mixed Denoising Using Quaternion-Based Non-Local Low Rank and Total Variation”, *Acta Electronica Sinica*, 51(4), 975--983, 2023.
57. Quanyong Liu, Jiangtao Peng, Yujie Ning, Na Chen, Weiwei Sun, Qian Du, and Yicong Zhou, “Refined Prototypical Contrastive Learning for Few-Shot Hyperspectral Image Classification”, **IEEE Transactions on Geoscience and Remote Sensing**, 61, 5506214, 2023. ([Highly Cited Paper](#))
58. Shuyi Li, Bob Zhang, Lunke Fei, Shuping Zhao, and Yicong Zhou, “Learning Sparse and Discriminative Multimodal Feature Codes for Finger Recognition”, **IEEE Transactions on Multimedia**, 25, 805--815, 2023.
59. Min Du, Lianhong Wang, and Yicong Zhou, “High-Stealth False Data Attacks on Overloading Multiple Lines in Power Systems”, **IEEE Transactions on Smart Grid**, 14(2), 1321--1324, 2023.
60. Hua Chen, Yu Jiang, Xiaogang Zhang, Yicong Zhou, Lianhong Wang, and Jinchao Wei, “Spatio-Temporal Graph Attention Network for Sintering Temperature Long-range Forecasting in Rotary Kilns”, **IEEE Transactions on Industrial Informatics**, 19(2), 1923--1932, 2023.
61. Xuan Shao, Ying Shen, Lin Zhang, Shengjie Zhao, Dandan Zhu, and Yicong Zhou, “SLAM For Indoor Parking: A Comprehensive Benchmark Dataset and a Tightly-coupled Semantic Framework”, **ACM Transactions on Multimedia Computing, Communications, and Applications**, 19(1), 1, 2023.
62. Xiaofei Yang, Weijia Cao, Yao Lu, and Yicong Zhou*, “Self-Supervised Learning with Prediction of Image Scale and Spectral Order for Hyperspectral Image Classification”, **IEEE Transactions on Geoscience and Remote Sensing**, 60, 5545715, 2022.
63. Xiaoyao Li, Lianhong Wang, Yicong Zhou, and Jing Zhang, “Color Image Denoising Using Adaptive Non-local 3D Total Variation”, *Journal of Image and Graphics*, 27(12), 3450--3460, 2022.
64. Rui Xu, Lei Xing, Shuai Shao, Lifei Zhao, Baodi Liu, Weifeng Liu, and Yicong Zhou, “GCT: Graph Co-Training for Semi-Supervised Few-Shot Learning”, **IEEE Transactions on Circuits and Systems for Video Technology**, 32(12), 8674--8687, 2022.
65. Yongshan Zhang, Yang Wang, Xiaohong Chen, Xinwei Jiang, and Yicong Zhou*, “Spectral-Spatial Feature Extraction with Dual Graph Autoencoder for Hyperspectral Image Clustering”, **IEEE Transactions on Circuits and Systems for Video Technology**, 32(12), 8500--8511, 2022.
66. Yinxing Zhang, Zhongyun Hua, Han Bao, Hejiao Huang, and Yicong Zhou, “An n-Dimensional Chaotic System Generation Method Using Parametric Pascal Matrix”, **IEEE Transactions on Industrial Informatics**, 18(12), 8434--8444, 2022.
67. Shen Wang, Zhaoyang Zhang, Guopu Zhu, Xinpeng Zhang, Yicong Zhou, and Jiwu Huang, “Query-Efficient Adversarial Attack with Low Perturbation Against End-to-End Speech Recognition Systems”, **IEEE Transactions on Information Forensics and Security**, 18, 351--364, 2022.
68. Tianjun Zhang, Hao Deng, Lin Zhang, Shengjie Zhao, Xiao Liu, and Yicong Zhou, “Online Correction of Camera Poses for the Surround-view System: A Sparse Direct Approach”, **ACM Transactions on Multimedia Computing, Communications, and Applications**, 18(4), 106, 2022.
69. Tianjun Zhang, Lin Zhang, Yang Chen, and Yicong Zhou, “CVIDS: A Collaborative Localization and Dense Mapping Framework for Multi-agent Based Visual-inertial SLAM”, **IEEE Transactions on Image Processing**, 31, 6562--6576, 2022.
70. Yao Lu, Guangming Lu, Zheng Zhang, Yicong Zhou, Jinxing Li, and David Zhang, “Addi-Reg: A Better Generalization-Optimization Trade-off Regularization Method for Convolutional Neural Networks”, **IEEE Transactions on Cybernetics**, 52(10), 10827--10842, 2022.
71. Wei Lu, Qin Zhang, Shangjun Luo, Jiwu Huang, Yicong Zhou, and Yun-Qing Shi, “Robust Estimation of Upscaling Factor on Double JPEG Compressed Images”, **IEEE Transactions on Cybernetics**, 52(10), 10814--10826, 2022.
72. Yongshan Zhang, Xinxin Wang, Xinwei Jiang, and Yicong Zhou*, “Robust Dual Graph Self-Representation for Unsupervised Hyperspectral Band Selection”, **IEEE Transactions on Geoscience and Remote Sensing**, 60, 5538513, 2022.

73. Yongyong Chen, Xiaolin Xiao, Zhongyun Hua, and Yicong Zhou*, “Adaptive Transition Probability Matrix Learning for Multiview Spectral Clustering”, **IEEE Transactions on Neural Networks and Learning Systems**, 33(9), 4712--4726, 2022.
74. Yongyong Chen, Shuqin Wang, Xiaolin Xiao, Youfa Liu, Zhongyun Hua, and Yicong Zhou, “Self-paced Enhanced Low-rank Tensor Kernelized Multi-view Subspace Clustering”, **IEEE Transactions on Multimedia**, 24, 4054--4066, 2022.
75. Jie Chang, Guopu Zhu, Hongli Zhang, Yicong Zhou, Xiangyang Luo, and Ligang Wu, “Reversible Data Hiding for Color Images Based on Adaptive 3D Prediction-Error Expansion and Double Deep Q-network”, **IEEE Transactions on Circuits and Systems for Video Technology**, 32(8), 5055--5067, 2022.
76. Zhongyun Hua, Yanxiang Wang, Shuang Yi, Yicong Zhou, and Xiaohua Jia, “Reversible Data Hiding in Encrypted Images Using Cipher-Feedback Secret Sharing”, **IEEE Transactions on Circuits and Systems for Video Technology**, 32(8), 4968--4982, 2022.
77. Jinfeng Li, Weifeng Liu, Yicong Zhou, Jun Yu, Dapeng Tao, and Changsheng Xu, “Domain-invariant Graph for Adaptive Semi-supervised Domain Adaptation”, **ACM Transactions on Multimedia Computing, Communications, and Applications**, 18(3), 72, 2022.
78. Ruijun Ma, Bob Zhang, Yicong Zhou, Zhengming Li, and Fangyuan Lei, “PID Controller Guided Attention Neural Network Learning for Fast and Effective Real Photographs Denoising”, **IEEE Transactions on Neural Networks and Learning Systems**, 33(7), 3010--3023, 2022.
79. Yulan Zhang, Guopu Zhu, Ligang Wu, Sam Kwong, Hongli Zhang, and Yicong Zhou, “Multi-task SE-Network for Image Splicing Localization”, **IEEE Transactions on Circuits and Systems for Video Technology**, 32(7), 4828--4840, 2022.
80. Xuan Shao, Lin Zhang, Tianjun Zhang, Ying Shen, and Yicong Zhou, “MOFIS_{SLAM}: A Multi-Object Semantic SLAM System with Front-view, Inertial and Surround-view Sensors for Indoor Parking”, **IEEE Transactions on Circuits and Systems for Video Technology**, 32(7), 4788--4803, 2022.
81. Zhongyun Hua, Yongyong Chen, Han Bao, and Yicong Zhou, “Two-Dimensional Parametric Polynomial Chaotic System”, **IEEE Transactions on Systems, Man and Cybernetics: Systems**, 52(7), 4402--4414, 2022.
82. Wei Lu, Junjia Chen, Junhong Zhang, Jiwu Huang, Jian Weng, and Yicong Zhou, “Secure Halftone Image Steganography Based on Feature Space and Layer Embedding”, **IEEE Transactions on Cybernetics**, 52(6), 5001--5014, 2022.
83. Yu Jiang, Hua Chen, Xiaogang Zhang, Yicong Zhou, and Lianhong Wang, “Combustion Condition Recognition of Coal-Fired Kiln Based on Chaotic Characteristics Analysis of Flame Video”, **IEEE Transactions on Industrial Informatics**, 18(6), 3843--3852, 2022.
84. Xiaofei Yang, Weijia Cao, Yao Lu, and Yicong Zhou*, “Hyperspectral Image Transformer Classification Networks”, **IEEE Transactions on Geoscience and Remote Sensing**, 60, 5528715, 2022.
85. Zheng Zhou, Yue Wu, Xiaofei Yang, and Yicong Zhou*, “Neural Style Transfer with Adaptive Auto-correlation Alignment Loss”, **IEEE Signal Processing Letters**, 29, 1027--1031, 2022.
86. Xinyu Zhang, Yantao Wei, Weijia Cao, Huang Yao, Jiangtao Peng, and Yicong Zhou, “Local Correntropy Matrix Representation for Hyperspectral Image Classification”, **IEEE Transactions on Geoscience and Remote Sensing**, 60, 5525813, 2022.
87. Bing Chen, Wei Lu, Jiwu Huang, Jian Weng, and Yicong Zhou, “Secret Sharing Based Reversible Data Hiding in Encrypted Images with Multiple Data-hiders”, **IEEE Transactions on Dependable and Secure Computing**, 19(2), 978--991, 2022.
88. Jianquan Yang, Guopu Zhu, Yao Luo, Sam Kwong, Xinpeng Zhang, and Yicong Zhou, “Forensic Analysis of JPEG-domain Enhanced Images via Coefficient Likelihood Modeling”, **IEEE Transactions on Circuits and Systems for Video Technology**, 32(3), 1006--1019, 2022.
89. Yongshan Zhang, Xinxin Wang, Xinwei Jiang, and Yicong Zhou*, “Marginalized Graph Self-Representation for Unsupervised Hyperspectral Band Selection”, **IEEE Transactions on Geoscience and Remote Sensing**, 60, 5516712, 2022.
90. Zhongyun Hua, Yinxing Zhang, Han Bao, Hejiao Huang, and Yicong Zhou, “*n*-Dimensional Polynomial Chaotic System with Applications”, **IEEE Transactions on Circuits and Systems I: Regular Papers**, 69(2), 784--797, 2022.

91. Yongyong Chen, Xiaolin Xiao, Chong Peng, Guangming Lu, and Yicong Zhou*, “Low-Rank Tensor Graph Learning for Multi-view Subspace Clustering”, **IEEE Transactions on Circuits and Systems for Video Technology**, 32(1), 92--104, 2022. ([Highly Cited Paper](#))
92. Jiangtao Peng, Weiwei Sun, Fan Jiang, Hong Chen, Yicong Zhou, and Qian Du, “A General Loss Based Nonnegative Matrix Factorization for Hyperspectral Unmixing”, **IEEE Geoscience and Remote Sensing Letters**, 19, 5500105, 2022.
93. Leyuan Wu, Xiaogang Zhang, Hua Chen, Yicong Zhou, Lianhong Wang, and Dingxiang Wang, “An Efficient Unsupervised Image Quality Metric with Application for Condition Recognition in Kiln”, *Engineering Applications of Artificial Intelligence*, 107, 104547, 2022.
94. Junxin Chen, Leo Yu Zhang, and Yicong Zhou*, “Re-evaluation of the Security of a Family of Image Diffusion Mechanisms”, **IEEE Transactions on Circuits and Systems for Video Technology**, 31(12), 4747--4758, 2021.
95. Anqi Zhu, Lin Zhang, Juntao Chen, and Yicong Zhou, “Pedestrian-Aware Panoramic Video Stitching Based on a Structured Camera Array”, **ACM Transactions on Multimedia Computing, Communications, and Applications**, 17(4), 136, 2021.
96. Sichao Fu, Weifeng Liu, Kai Zhang, and Yicong Zhou, “Example-Feature Graph Convolutional Networks for Semi-supervised Classification”, *Neurocomputing*, 461, 63--76, 2021.
97. Lin Zhang, Anqi Zhu, Shiyu Zhao, and Yicong Zhou, “Simulation of Atmospheric Visibility Impairment”, **IEEE Transactions on Image Processing**, 30, 8713--8726, 2021.
98. Zhong Wang, Ying Shen, Lin Zhang, Shaoming Zhang, and Yicong Zhou, “Towards Robust Autonomous Coverage Navigation for Carlike Robots”, **IEEE Robotics and Automation Letters**, 6(4), 8742--8749, 2021.
99. Xinyu Zhang, Yantao Wei, Huang Yao, Zhijing Ye, Yicong Zhou, and Yue Zhao, “Locally Homogeneous Covariance Matrix Representation for Hyperspectral Image Classification”, **IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (JSTARS)**, 14, 9396--9407, 2021.
100. Yantao Wei and Yicong Zhou, “Spatial-Aware Network for Hyperspectral Image Classification”, *Remote Sensing*, 13(16), 3232, 2021.
101. Dingxiang Wang, Xiaogang Zhang, Hua Chen, Yicong Zhou, and Fanyong Cheng, “A Sintering State Recognition Framework to Integrate Prior Knowledge and Hidden Information considering Class Imbalance”, **IEEE Transactions on Industrial Electronics**, 68(8), 7400--7411, 2021.
102. Yao Lu, Guangming Lu, Yicong Zhou, Jinxing Li, Yuanrong Xu, and David Zhang, “Highly Shared Convolutional Neural Networks”, *Expert Systems with Applications*, 175, 114782, 2021.
103. Junxin Chen, Lei Chen, and Yicong Zhou*, “Universal Chosen-Attack for a Family of Image Encryption Schemes”, **IEEE Transactions on Multimedia**, 23, 2372--2385, 2021.
104. Weifeng Liu, Sichao Fu, Yicong Zhou, Zhengjun Zha, and Liqiang Nie, “Human Activity Recognition by Manifold Regularization Based Dynamic Graph Convolutional Networks”, *Neurocomputing*, 444, 217--225, 2021.
105. Xiaogang Zhang, Yanying Lei, Hua Chen, Lei Zhang, and Yicong Zhou, “Multivariate Time Series Modeling for Forecasting Sintering Temperature in Rotary Kilns Using DCGNet”, **IEEE Transactions on Industrial Informatics**, 17(7), 4635--4645, 2021.
106. Zhongyun Hua, Binghang Zhou, Yinxing Zhang, and Yicong Zhou, “Modular Chaotification Model with FPGA Implementation”, *Science China Technological Sciences*, 64, 1472--1484, 2021.
107. Junxin Chen, Lei Chen, and Yicong Zhou*, “Cryptanalysis of Image Ciphers with Permutation-Substitution Network and Chaos”, **IEEE Transactions on Circuits and Systems for Video Technology**, 31(6), 2494--2508, 2021.
108. Zhongyun Hua, and Yicong Zhou*, “Exponential Chaotic Model for Generating Robust Chaos”, **IEEE Transactions on Systems, Man and Cybernetics: Systems**, 51(6), 3713--3724, 2021. ([Highly Cited Paper](#))
109. Sichao Fu, Weifeng Liu, Kai Zhang, Yicong Zhou, and Dapeng Tao, “Semi-Supervised Classification by Graph p-Laplacian Convolutional Networks”, *Information Sciences*, 560, 92--106, 2021.
110. Zhongyun Hua, Kuiyuan Zhang, Yuanman Li, and Yicong Zhou, “Visually Secure Image Encryption Using Adaptive-Thresholding Sparsification and Parallel Compressive Sensing”, *Signal Processing*, 183, 107998, 2021. ([Highly Cited Paper](#))

111. Shisong Lin, Mengchao Bai, Feng Liu, Linlin Shen, and Yicong Zhou, “Orthogonalization-Guided Feature Fusion Network for Multimodal 2D+3D Facial Expression Recognition”, **IEEE Transactions on Multimedia**, 23, 1581–1591, 2021.
112. Aiwen Luo, Sandip Bhattacharya, Sunandan Dutta, Yoshihiro Ochi, Mitiko Miura-Mattausch, Jian Weng, Yicong Zhou, and Hans J. Mattausch, “Surface Recognition via Force-Sensory Walking-Pattern Classification for Biped Robot”, **IEEE Sensors Journal**, 21(8), 10061--10072, 2021.
113. Yongyong Chen, Shuqin Wang, Chong Peng, Zhongyun Hua, and Yicong Zhou, “Generalized Nonconvex Low-rank Tensor Approximation for Multi-view Subspace Clustering”, **IEEE Transactions on Image Processing**, 30, 4022–4035, 2021. ([Highly Cited Paper](#))
114. Shiyu Zhao, Lin Zhang, Ying Shen, and Yicong Zhou, “RefinedNet: A Weakly Supervised Refinement Framework for Single Image Dehazing”, **IEEE Transactions on Image Processing**, 30, 3391--3404, 2021. ([Highly Cited Paper](#))
115. Xiaolin Xiao, Yongyong Chen, Yue-Jiao Gong, and Yicong Zhou*, “Prior Knowledge Regularized Multiview Self-Representation and its Applications”, **IEEE Transactions on Neural Networks and Learning Systems**, 32(3), 1325--1338, 2021.
116. Sichao Fu, Weifeng Liu, Weili Guan, Yicong Zhou, Dapeng Tao, and Changsheng Xu, “Dynamic Graph Learning Convolutional Networks for Semi-supervised Classification”, **ACM Transactions on Multimedia Computing, Communications, and Applications**, 17(1s), 4, 2021.
117. Jiangtao Peng, Yicong Zhou, Weiwei Sun, Qian Du, and Lekang Xia, “Self-paced Nonnegative Matrix Factorization for Hyperspectral Unmixing”, **IEEE Transactions on Geoscience and Remote Sensing**, 59(2), 1501--1515, 2021. ([“Hot Paper”](#) and [“Highly Cited Paper”](#))
118. Weifeng Liu, Jinfeng Li, Baodi Liu, Weili Guan, Yicong Zhou, and Changsheng Xu, “Unified Cross-domain Classification via Geometric and Statistical Adaptations”, *Pattern Recognition*, 110, 107658, 2021.
119. Junxin Chen, Wei Wang, Yicong Zhou, Syed Hassan Ahmed, and Wei Wei, “Exploiting 5G and Blockchain for Medical Applications of Drones”, **IEEE Network**, 35(1), 30--36, 2021.
120. Xiaolin Xiao, Yongyong Chen, Yue-Jiao Gong, and Yicong Zhou, “Low-Rank Preserving t-Linear Projection for Robust Image Feature Extraction”, **IEEE Transactions on Image Processing**, 30, 108--120, 2021.
121. Qiu Tang, Wei Qiu, and Yicong Zhou*, “Classification of Complex Power Quality Disturbances Using Optimized S-Transform and Kernel SVM”, **IEEE Transactions on Industrial Electronics**, 67(11), 9715--9723, 2020.
122. Dingxiang Wang, Xiaogang Zhang, Hua Chen, Yicong Zhou, and Fanyong Cheng, “Sintering Conditions Recognition of Rotary Kiln Based on Kernel Modification Considering Class Imbalance”, *ISA Transactions*, 106, 271--282, 2020.
123. Leyuan Wu, Xiaogang Zhang, Hua Chen, and Yicong Zhou, “Unsupervised Quaternion Model for Blind Colour Image Quality Assessment”, *Signal Processing*, 176, 107708, 2020.
124. Yongyong Chen, Xiaolin Xiao, and Yicong Zhou*, “Multi-view Subspace Clustering via Simultaneously Learning the Representation Tensor and Affinity Matrix”, *Pattern Recognition*, 106, 107441, 2020.
125. Yongyong Chen, Jiaxue Li, and Yicong Zhou*, “Hyperspectral Image Denoising by Total Variation-Regularized Bilinear Factorization”, *Signal Processing*, 174, 107645, 2020.
126. Xiaochun Cao, Yicong Zhou, and Jing-Ming Guo, “Guest Editorial Introduction to Special Section on Modern Reversible Data Hiding and Watermarking”, **IEEE Transactions on Circuits and Systems for Video Technology**, 30(8), 2297--2299, 2020.
127. Yongyong Chen, Xiaolin Xiao, and Yicong Zhou*, “Jointly Learning Kernel Representation Tensor and Affinity Matrix for Multi-view Clustering”, **IEEE Transactions on Multimedia**, 22(8), 1985--1997, 2020.
128. Weifeng Liu, Yicong Zhou, Karen Panetta, Sos Agaian, “Special Section Guest Editorial: Representation Learning and Big Data Analytics for Remote Sensing”, *Journal of Applied Remote Sensing*, 14(3), 032601, 2020.
129. Weijia Cao, Yujun Mao, and Yicong Zhou*, “Designing a 2D Infinite Collapse Map for Image Encryption”, *Signal Processing*, 171, 107457, 2020.
130. Rushi Lan, Huimin Lu, Yicong Zhou, Zhenbing Liu, and Xiaonan Luo, “An LBP Encoding Scheme Jointly Using Quaternionic Representation and Angular Information”, *Neural Computing and Applications*, 32, 4317--4323, 2020. ([Highly Cited Paper](#))

131. Junxin Chen, Lei Chen, and Yicong Zhou*, “Cryptanalysis of a DNA-Based Image Encryption Scheme”, *Information Sciences*, 520, 130--141, 2020.
132. Rushi Lan, Yicong Zhou*, Zhenbing Liu, and Xiaonan Luo, “Prior Knowledge-Based Probabilistic Collaborative Representation for Visual Recognition”, *IEEE Transactions on Cybernetics*, 50(4), 1498--1508, 2020. ([Highly Cited Paper](#))
133. Sichao Fu, Weifeng Liu, Dapeng Tao, Yicong Zhou, and Liqiang Nie, “HesGCN: Hessian Graph Convolutional Networks for Semi-Supervised Classification”, *Information Sciences*, 514, 484--498, 2020.
134. Zhongyun Hua, Yinxing Zhang, and Yicong Zhou*, “Two-Dimensional Modular Chaotification System for Improving Chaos Complexity”, *IEEE Transactions on Signal Processing*, 68, 1937--1949, 2020.
135. Mingyang Lv, Xiaogang Zhang, Hua Chen, Yicong Zhou, and Jianmin Li, “Chaotic and Multifractal Characteristic Analysis of Noise of Thermal Variables from Rotary Kiln”, *Nonlinear Dynamics*, 99, 3089--3111, 2020.
136. Jinfeng Li, Weifeng Liu, Yicong Zhou, Dapeng Tao, and Liqiang Nie, “Domain Adaptation with Few Labeled Source Samples by Graph Regularization”, *Neural Processing Letters*, 51, 23--39, 2020.
137. Zhongyun Hua, Yicong Zhou, and Bocheng Bao, “Two-Dimensional Sine Chaotification System with Hardware Implementation”, *IEEE Transactions on Industrial Informatics*, 16(2), 887--897, 2020. ([Highly Cited Paper](#))
138. Xiaolin Xiao, Yongyong Chen, Yue-Jiao Gong, and Yicong Zhou*, “2D Quaternion Sparse Discriminant Analysis”, *IEEE Transactions on Image Processing*, 29, 2271--2286, 2020.
139. Yongyong Chen, Xiaolin Xiao, and Yicong Zhou*, “Low-rank Quaternion Approximation for Color Image Processing”, *IEEE Transactions on Image Processing*, 29, 1426--1439, 2020.
140. Xiaoyao Li, Yicong Zhou*, Jing Zhang, and Lianhong Wang, “Multipatch Unbiased Distance Non-local Adaptive Means with Wavelet Shrinkage”, *IEEE Transactions on Image Processing*, 29, 157--169, 2020.
141. Guanhua Feng, Weifeng Liu, Dapeng Tao, and Yicong Zhou, “Hessian Regularized Distance Metric Learning for People Re-Identification”, *Neural Processing Letters*, 50, 2087--2100, 2019.
142. Sichao Fu, Weifeng Liu, Shuying Li, and Yicong Zhou, “Two-Order Graph Convolutional Networks for Semi-Supervised Classification”, *IET Image Processing*, 13(14), 2763--2771, 2019.
143. Xueqi Ma, Weifeng Liu, Dapeng Tao, and Yicong Zhou, “Ensemble p -Laplacian Regularization for Remote Sensing Image Recognition”, *Cognitive Computation*, 11(6), 841--854, 2019.
144. Sichao Fu, Weifeng Liu, Yicong Zhou, and Liqiang Nie, “HpLapGCN: Hypergraph p -Laplacian Graph Convolutional Networks”, *Neurocomputing*, 362, 166--174, 2019.
145. Zhen Xu, Yinyan Jiang, Yichuan Wang, Yicong Zhou, Weifeng Li, Qingmin Liao, “Local Polynomial Contrast Binary Patterns for Face Recognition”, *Neurocomputing*, 355, 1--12, 2019.
146. Weifeng Liu, Xueqi Ma, Yicong Zhou*, Dapeng Tao, and Jun Cheng, “ p -Laplacian Regularization for Scene Recognition”, *IEEE Transactions on Cybernetics*, 49(8), 2927--2940, 2019. ([Highly Cited Paper](#))
147. Xiaolin Xiao, and Yicong Zhou*, “Two-dimensional Quaternion PCA and Sparse PCA”, *IEEE Transactions on Neural Networks and Learning Systems*, 30(7), 2028--2042, 2019.
148. Xiaogang Zhang, Dingxiang Wang, Yicong Zhou, Hua Chen, Fanyong Cheng, and Min Liu, “Kernel Modified Optimal Margin Distribution Machine for Imbalanced Data Classification”, *Pattern Recognition Letters*, 125, 325--332, 2019.
149. Guanhua Feng, Weifeng Liu, Shuying Li, Dapeng Tao, and Yicong Zhou*, “Hessian Regularized Multi-task Dictionary Learning for Remote Sensing Image Recognition”, *IEEE Geoscience and Remote Sensing Letters*, 16(5), 821--825, 2019.
150. Xiaolin Xiao, Yicong Zhou, and Yue-Jiao Gong, “RGB-‘D’ Saliency Detection with Pseudo Depth”, *IEEE Transactions on Image Processing*, 28(5), 2126--2139, 2019.
151. Zhongyun Hua, Yicong Zhou, and Hejiao Huang, “Cosine-Transform-Based Chaotic System for Image Encryption”, *Information Sciences*, 480, 403--419, 2019. (“[Hot Paper](#)” and “[Highly Cited Paper](#)”)
152. Xueqi Ma, Weifeng Liu, Shuying Li, Dapeng Tao, and Yicong Zhou*, “Hypergraph p -Laplacian Regularization for Remotely Sensed Image Recognition”, *IEEE Transactions on Geoscience and Remote Sensing*, 57(3), 1585--1595, 2019. ([Highly Cited Paper](#))

153. Zhongyun Hua, Binghang Zhou, and Yicong Zhou, “Sine Chaotification Model for Enhancing Chaos and its Hardware Implementation”, **IEEE Transactions on Industrial Electronics**, 66(2), 1273--1284, 2019. ([Highly Cited Paper](#))
154. Shuang Yi, and Yicong Zhou*, “Separable and Reversible Data Hiding in Encrypted Images using Parametric Binary Tree Labeling”, **IEEE Transactions on Multimedia**, 21(1), 51--64, 2019.
155. Shuang Yi, and Yicong Zhou*, “Parametric Reversible Data Hiding in Encrypted Images using Adaptive Bit-level Data Embedding and Checkerboard based Prediction”, *Signal Processing*, 150, 171--182, 2018.
156. Yue-Jiao Gong, Jun Zhang, and Yicong Zhou*, “Learning Multimodal Parameters: A Bare-Bones Niching Differential Evolution Approach”, **IEEE Transactions on Neural Networks and Learning Systems**, 29(7), 2944--2959, 2018.
157. Xiaolin Xiao, Yicong Zhou, and Yue-Jiao Gong, “Content-Adaptive Superpixel Segmentation”, **IEEE Transactions on Image Processing**, 27(6), 2883--2896, 2018.
158. Yongyong Chen, Shuqin Wang, and Yicong Zhou*, “Tensor Nuclear Norm-based Low-Rank Approximation with Total Variation Regularization”, **IEEE Journal of Selected Topics in Signal Processing**, 12(6), 1364--1377, 2018.
159. Shuang Yi, Yicong Zhou*, and Zhongyun Hua, “Reversible Data Hiding in Encrypted Images using Adaptive Block-Level Prediction-Error Expansion”, *Signal Processing: Image Communication*, 64, 78--88, 2018.
160. Zhongyun Hua, Binghang Zhou, and Yicong Zhou*, “Sine-Transform-Based Chaotic System with FPGA Implementation”, **IEEE Transactions on Industrial Electronics**, 65(3), 2557--2566, 2018. ([Highly Cited Paper](#))
161. Yue-Jiao Gong, and Yicong Zhou*, “Differential Evolutionary Superpixel Segmentation”, **IEEE Transactions on Image Processing**, 27(3), 1390--1404, 2018.
162. Zhongyun Hua, Shuang Yi, and Yicong Zhou*, “Medical Image Encryption Using High-speed Scrambling and Pixel Adaptive Diffusion”, *Signal Processing*, 144, 134--144, 2018. ([Highly Cited Paper](#))
163. Zhongyun Hua, Shuang Yi, Yicong Zhou*, Chengqing Li, and Yue Wu, “Designing Hyperchaotic Cat Maps with any Desired Number of Positive Lyapunov Exponents”, **IEEE Transactions on Cybernetics**, 48(2), 463--473, 2018. ([Highly Cited Paper](#))
164. Zhongyun Hua, and Yicong Zhou*, “One-Dimensional Nonlinear Model for Producing Chaos”, **IEEE Transactions on Circuits and Systems I: Regular Papers**, 65(1), 235--246, 2018.
165. Weifeng Liu, Zhenqing Zhang, Xinghua Chen, Shuying Li, and Yicong Zhou, “Dictionary Learning Based Hough Transform for Road Detection in Multispectral Image”, **IEEE Geoscience and Remote Sensing Letters**, 14(12), 2330--2334, 2017.
166. Long Bao, Shuang Yi, and Yicong Zhou*, “Combination of Sharing Matrix and Image Encryption for Lossless (k, n)-Secret Image Sharing”, **IEEE Transactions on Image Processing**, 26(12), 5618--5631, 2017.
167. Zhongyun Hua, and Yicong Zhou*, “Design of Image Cipher Using Block-based Scrambling and Image Filtering”, *Information Sciences*, 396, 97--113, 2017.
168. Rushi Lan, and Yicong Zhou*, “Medical Image Retrieval via Histogram of Compressed Scattering Coefficients”, **IEEE Journal of Biomedical and Health Informatics**, 21(5), 1338--1346, 2017.
169. Jiarun Song, Fuzheng Yang, Yicong Zhou, and Shan Gao, “Parametric Planning Model for Video Quality Evaluation of IPTV Services Combining Channel and Video Characteristics”, **IEEE Transactions on Multimedia**, 19(5), 1015--1029, 2017.
170. Jiangtao Peng, Hong Chen, Yicong Zhou, and Luoqing Li, “Ideal Regularized Composite Kernel for Hyperspectral Image Classification”, **IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (JSTARS)**, 10(4), 1563--1574, 2017.
171. Shuang Yi, and Yicong Zhou*, “Binary-Block Embedding for Reversible Data Hiding in Encrypted Images”, *Signal Processing*, 133, 40--51, 2017.
172. Qingxiang Feng, and Yicong Zhou*, “Kernel Regularized Data Uncertainty for Action Recognition”, **IEEE Transactions on Circuits and Systems for Video Technology**, 27(3), 557--588, 2017.
173. Weijia Cao, Yicong Zhou*, C. L. Philp Chen, and Liming Xia, “Medical Image Encryption Using Edge Maps”, *Signal Processing*, 132, 96--109, 2017.
174. Yantao Wei, Yicong Zhou, and Hong Li, “Spectral-Spatial Response for Hyperspectral Image Classification”, *Remote Sensing*, 9(3), 203, 2017.

175. Rushi Lan, Yicong Zhou*, and Yuan Yan Tang, “Quaternionic Weber Local Descriptor of Color Images”, **IEEE Transactions on Circuits and Systems for Video Technology**, 27(2), 261--274, 2017.
176. Qingxiang Feng, Chun Yuan, Jeng-Shyang Pan, Jar-Ferr Yang, Yang-Ting Chou, Yicong Zhou*, and Weifeng Li, “Superimposed Sparse Parameter Classifiers for Face Recognition”, **IEEE Transactions on Cybernetics**, 47(2), 378--390, 2017.
177. Zhongyun Hua, and Yicong Zhou*, “Dynamic Parameter-Control Chaotic System”, **IEEE Transactions on Cybernetics**, 46(12), 3330--3341, 2016.
178. Yue Wu, Zhongyun Hua, and Yicong Zhou*, “n-dimensional Discrete Cat Map Generation using Laplace Expansions”, **IEEE Transactions on Cybernetics**, 46(11), 2622--2633, 2016.
179. Rushi Lan, and Yicong Zhou*, “Quaternion-Michelson Descriptor for Color Image Classification”, **IEEE Transactions on Image Processing**, 25(11), 5281--5292, 2016.
180. Qingxiang Feng, and Yicong Zhou*, “Kernel Combined Sparse Representation for Disease Recognition”, **IEEE Transactions on Multimedia**, 18(10), 1956--1968, 2016.
181. Yue-Jiao Gong, Jingjing Li, Yicong Zhou, Yun Li, Henry Shu-Hung Chung, Yu-Hui Shi, and Jun Zhang, “Genetic Learning Particle Swarm Optimization”, **IEEE Transactions on Cybernetics**, 46(10), 2277--2290, 2016. ([Highly Cited Paper](#))
182. Shilian Yu, Ye Ai, Bo Xu, Yicong Zhou, Weifeng Li, Qingmin Liao, and Norman Poh, “Two Strategies to Optimize the Decisions in Signature Verification with the Presence of Spoofing Attacks”, *Information Sciences*, 352--353, 188--202, 2016.
183. Yicong Zhou, and Yantao Wei, “Learning Hierarchical Spectral-Spatial Features for Hyperspectral Image Classification”, **IEEE Transactions on Cybernetics**, 46(7), 1667--1678, 2016.
184. Guoheng Huang, Chi Man Pun, Cong Lin, and Yicong Zhou, “Non-rigid Visual Object Tracking using User-defined Marker and Gaussian Kernel”, *Multimedia Tools and Applications*, 75(10), 5473--5492, 2016.
185. Yicong Zhou, Hong Chen, Rushi Lan, and Zhibin Pan, “Generalization Performance of Regularized Ranking with Multiscale Kernels”, **IEEE Transactions on Neural Networks and Learning Systems**, 27(5), 993--1002, 2016.
186. Zhongyun Hua, and Yicong Zhou*, “Image Encryption Using 2D Logistic-Adjusted-Sine Map”, *Information Sciences*, 339, 237--253, 2016. ([Highly Cited Paper](#))
187. Jiarun Song, Fuzheng Yang, Yicong Zhou, Shuai Wan, and Hong Ren Wu, “QoE Evaluation of Multimedia Services Based on Audiovisual Quality and User Interest”, **IEEE Transactions on Multimedia**, 18(3), 444--457, 2016.
188. Rushi Lan, Yicong Zhou*, and Yuan Yan Tang, “Quaternionic Local Ranking Binary Pattern: A Local Descriptor of Color Images”, **IEEE Transactions on Image Processing**, 25(2), 566--579, 2016.
189. Zuodong Yang, Yong Wu, Wenteng Zhao, Yicong Zhou, Zongqing Lu, Weifeng Li, and Qingmin Liao, “A Novel Illumination-robust Local Descriptor Based on Sparse Linear Regression”, *Digital Signal Processing*, 48, 269--275, 2016.
190. Yue Wu, Yicong Zhou*, Sos Agaian, and Joseph P. Noonan, “2D Sudoku Associated Bijections for Image Scrambling”, *Information Sciences*, 327, 91--109, 2016.
191. Long Bao, and Yicong Zhou*, “Image Encryption: Generating Visually Meaningful Encrypted Images”, *Information Sciences*, 324, 197--207, 2015.
192. C. L. Philip Chen, Licheng Liu, Long Chen, Yuan Yan Tang, and Yicong Zhou, “Weighted Couple Sparse Representation with Classified Regularization for Impulse Noise Removal”, **IEEE Transactions on Image Processing**, 24(11), 4014--4026, 2015.
193. Yicong Zhou*, Zhongyun Hua, Chi Man Pun, and C. L. Philip Chen, “Cascade Chaotic System with Applications”, **IEEE Transactions on Cybernetics**, 45(9), 2001--2012, 2015. ([Highly Cited Paper](#))
194. Jing He, Fuzheng Yang, and Yicong Zhou*, “High-speed Implementation of Rate-distortion Optimized Quantisation for H.265/HEVC”, *IET Image Processing*, 9(8), 652--661, 2015.
195. Yicong Zhou, Jiangtao Peng, and C. L. Philip Chen, “Extreme Learning Machine with Composite Kernels for Hyperspectral Image Classification”, **IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (JSTARS)**, 8(6), 2351--2360, 2015.
196. Peipei Yuan, Hong Chen, Yicong Zhou, Xiaoyan Deng, and Bin Zou, “Generalization Ability of Extreme Learning Machine with Uniformly Ergodic Markov Chains”, *Neurocomputing*, 167, 528--534, 2015.

197. Jiangtao Peng, Yicong Zhou*, and C. L. Philip Chen, "Region-Kernel-based Support Vector Machines for Hyperspectral Image Classification", **IEEE Transactions on Geoscience and Remote Sensing**, 53(9), 4810--4824, 2015.
198. Licheng Liu, C. L. Philip Chen, Yicong Zhou, and Xinge You, "A new Weighted Mean Filter with a Two-phase Detector for Removing Impulse Noise", *Information Sciences*, 315, 1--16, 2015.
199. Yinyan Jiang, Biao Wang, Yicong Zhou, Weifeng Li, and Qingmin Liao, "Patterns of Weber Magnitude and Orientation for Uncontrolled Face Representation and Recognition", *Neurocomputing*, 165, 190--201, 2015.
200. Zhongyun Hua, Yicong Zhou*, Chi Man Pun, and C. L. Philip Chen, "2D Sine Logistic Modulation Map for Image Encryption", *Information Sciences*, 297, 80--94, 2015. ([Highly Cited Paper](#))
201. Yicong Zhou, Jiangtao Peng, and C. L. Philip Chen, "Dimension Reduction Using Spatial and Spectral Regularized Local Discriminant Embedding for Hyperspectral Image Classification", **IEEE Transactions on Geoscience and Remote Sensing**, 53(2), 1082--1698, 2015. ([Highly Cited Paper](#))
202. Yicong Zhou*, Weijia Cao, Licheng Liu, Sos Agaian, and C. L. Philip Chen, "Fast Fourier Transform Using Matrix Decomposition", *Information Sciences*, 291, 172--183, 2015.
203. Karen Panetta, Sos Agaian, Jean-Charles Pinoli, and Yicong Zhou, "Image Processing Algorithms and Measures for the Analysis of Biomedical Imaging Systems Applications", *International Journal of Biomedical Imaging*, Article ID 926921, 2015.
204. Weifeng Li, Longbiao Wang, Yicong Zhou, John Dines, Mathew Magimai Doss, Hervé Bourlard, and Qingmin Liao, "Feature Mapping of Multiple Beamformed Sources for Robust Overlapping Speech Recognition Using a Microphone Array", **IEEE/ACM Transactions on Audio, Speech and Language Processing**, 22(12), 2244--2255, 2014.
205. Yue Wu, Yicong Zhou*, and Long Bao, "Discrete Wheel-Switching Chaotic System and Applications", **IEEE Transactions on Circuits and Systems I: Regular Papers**, 61(12), 3469--3477, 2014.
206. Xiangli Liao, Hongbo Xu, Yicong Zhou, Kunqian Li, Wenbing Tao, Qiuju Guo, and Liman Liu, "Automatic Image Segmentation Using Salient Key Point Extraction and Star Shape Prior", *Signal Processing*, 105, 122--136, 2014.
207. Wenbing Tao, Yicong Zhou, Kunqian Li, Kun Sun, and Zhiguo Zhang, "Spatial Adjacent Bag of Features with Multiple Superpixels for Object Segmentation and Classification", *Information Sciences*, 281, 373--385, 2014.
208. Yue Wu, Yicong Zhou*, Sos Agaian, and Joseph P. Noonan, "A Symmetric Image Cipher Using Wave Perturbations", *Signal Processing*, 102, 122--131, 2014.
209. Yong Wu, Yinyan Jiang, Yicong Zhou, Weifeng Li, Zongqing Lu, and Qingmin Liao, "Generalized Weber-Face for Illumination-Robust Face Recognition", *Neurocomputing*, 136, 262--267, 2014.
210. Yicong Zhou*, Weijia Cao, and C. L. Philip Chen, "Image Encryption Using Binary Bitplane", *Signal Processing*, 100, 197--207, 2014.
211. Hong Chen, Jiangtao Peng, Yicong Zhou, Luoqing Li, and Zhibin Pan, "Extreme Learning Machine for Ranking: Generalization Analysis and Applications", *Neural Networks*, 53, 119--126, 2014.
212. Yue Wu, Yicong Zhou*, Joseph P. Noonan, and Sos Agaian, "Design of Image Cipher Using Latin Squares", *Information Sciences*, 264, 317--339, 2014.
213. Chanchan Qin, Guoping Zhang, Yicong Zhou, Wenbing Tao, and Zhiguo Cao, "Integration of the Saliency-Based Seed Extraction and Random Walks for Image Segmentation", *Neurocomputing*, 129, 378--391, 2014.
214. Yicong Zhou*, Long Bao, and C. L. Philip Chen, "A New 1D Chaotic System for Image Encryption", *Signal Processing*, 97, 172--182, 2014. ([Highly Cited Paper](#))
215. Hong Chen, Yicong Zhou, Yi Tang, Yuan Yan Tang, and Zhibin Pan, "Generalization Performance of Support Vector Classifiers for Density Level Detection", *Neurocomputing*, 119, 434--438, 2013.
216. Yicong Zhou*, Long Bao, and C. L. Philip Chen, "Image Encryption Using a New Parametric Switching Chaotic System", *Signal Processing*, 93(11), 3039--3052, 2013.
217. Weifeng Li, Longbiao Wang, Yicong Zhou, Hervé Bourlard, and Qingmin Liao, "Robust Log-Energy Estimation and its Dynamic Change Enhancement for In-car Speech Recognition", **IEEE Transactions on Audio, Speech and Language Processing**, 21(8), 1689--1698, 2013.
218. Weifeng Li, Yicong Zhou, Norman Poh, Fei Zhou, and Qingmin Liao, "Feature Denoising Using Joint Sparse Representation for In-car Speech Recognition", **IEEE Signal Processing Letters**, 20(7), 681--684, 2013.

219. Hong Chen, Yicong Zhou, Yuan Yan Tang, Luoqing Li, and Zhibin Pan, “Convergence Rate of the Semi-supervised Greedy Algorithm”, *Neural Networks*, 44, 44--50, 2013.
220. Yicong Zhou*, Karen Panetta, Sos Agaian, and C. L. Philip Chen, “(n, k, p)-Gray Code for Image Systems”, **IEEE Transactions on Cybernetics**, 43(2), 515--529, 2013.
221. Yue Wu, Yicong Zhou, George Saveriades, Sos Agaian, Premkumar Natarajan, and Joseph P. Noonan, “Local Shannon Entropy Measure with Statistical Tests for Image Randomness”, *Information Sciences*, 222, 323--342, 2013. ([Highly Cited Paper](#))
222. C. L. Philip Chen, Mei-Ching Chen, Sos Agaian, Yicong Zhou*, Anuradha Roy, and Benjamin M. Rodriguez, “A Pattern Recognition System for JPEG Steganography Detection”, *Optics Communications*, 285(21--22), 4252--4261, 2012.
223. Yicong Zhou*, Karen Panetta, Sos Agaian, and C. L. Philip Chen, “Image Encryption Using P-Fibonacci Decomposition and Transform”, *Optics Communications*, 285(5), 594--608, 2012.
224. Karen Panetta, Yicong Zhou*, Sos Agaian, and Hongwei Jia “Nonlinear Unsharp Masking for Mammogram Enhancement”, **IEEE Transactions on Information Technology in Biomedicine**, 15(6), 918--928, 2011.
225. Karen Panetta, Sos Agaian, Yicong Zhou, and Eric Wharton, “Parameterized Logarithmic Framework for Image Enhancement”, **IEEE Transactions on Systems, Man and Cybernetics, Part B: Cybernetics**, 41(2), 460--473, 2011.

Book and Book Chapter:

1. Yicong Zhou, Sos Agaian, Karen Panetta, and C. L. Philip Chen, “Nonlinear Unsharp Masking for Enhancing Suspicious Regions in Mammograms” in *Computer-Aided Cancer Detection and Diagnosis: Recent Advances*, SPIE, 2013, ISBN: 9780819497390.
2. Yicong Zhou, Karen Panetta, and Sos Agaian, “Multimedia Encryption Using Recursive Sequences”, VDM Verlag, Germany, 2008, ISBN 978-3-63908-523-5.

Conference Papers:

1. Xinxin Wang, Yongshan Zhang, and Yicong Zhou*, “Highly Efficient Rotation-Invariant Spectral Embedding for Scalable Incomplete Multi-View Clustering”, *The Thirty-Ninth AAAI Conference on Artificial Intelligence (AAAI)*, Accepted, Philadelphia, USA, 2025.
2. Jiabin Cheng, Zixu Zhao, Tong He, Tianjun Xiao, Yicong Zhou*, and Zheng Zhang, “Rethinking The Training And Evaluation of Rich-Context Layout-to-Image Generation”, *Advances in Neural Information Processing Systems (NeurIPS 2024)*, Accepted, 2024.
3. Zheng Zhou, Zongxin Liu, Yongyong Chen, Bingzhi Chen, Biqing Zeng, and Yicong Zhou, “Deep Unfolding 3D Non-Local Transformer Network for Hyperspectral Snapshot Compressive Imaging”, *IEEE International Conference on Multimedia and Expo (ICME)*, 1--6, Niagra Falls, Canada, 2024.
4. Shuai Shao, Yu Bai, Yan Wang, Baodi Liu, and Yicong Zhou*, “DeII: Direct and Inverse CLIP for Open-World Few-Shot Learning”, **IEEE Conference on Computer Vision and Pattern Recognition (CVPR)**, 28505--28514, Seattle, USA, 2024.
5. Chen-bin Feng, Jie Zhang, Jiaxue Li, and Yicong Zhou*, “Seam Mask Guided Partial Reconstruction with Quantum-Inspired Local Aggregation for Deep Image Stitching”, *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2430--2434, Seoul, Korea, 2024.
6. Yuxiang Sun, Ke Qi, Yicong Zhou, and Yutao Qi, “Strip-Cutmix for Person Re-Identification”, *International Joint Conference on Neural Networks (IJCNN)*, 1--4, Queensland, Australia, 2023.
7. Jie Zhang, Yongshan Zhang, and Yicong Zhou*, “Quantum-Inspired Spectral-Spatial Pyramid Network for Hyperspectral Image Classification”, **IEEE Conference on Computer Vision and Pattern Recognition (CVPR)**, 9925--9934, Vancouver Canada, 2023.
8. Ke Qi, Liji Chen, Yicong Zhou, and Yutao Qi, “Multi-Modal Fusion Object Tracking Based on Fully Convolutional Siamese Network”, *The 2nd Asia Conference on Algorithms, Computing and Machine Learning*, 440--444, Shanghai, China, 2023.
9. Runlin Gong, Ke Qi, Yicong Zhou, Wenbin Chen, and Jingdong Zhang, “Image Recognition Based on Enhanced-Conformer”, *IEEE International Conference on Automation, Electronics and Electrical Engineering*, 114--120, Shenyang, China, 2022.

10. Zhong Wang, Lin Zhang, Ying Shen, and Yicong Zhou, “LVI-ExC: A Target-free LiDAR-Visual-Inertial Extrinsic Calibration Framework”, *The 30th ACM International Conference on Multimedia (ACMMM)*, 3319--3327, Lisbon, Portugal, 2022.
11. Jiaxue Li, and Yicong Zhou*, “Automatic Color Image Stitching Using Quaternion Rank-1 Alignment”, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 19720--19729, New Orleans, USA, 2022.
12. Zhefeng Zhu, Ke Qi, Wenbin Chen, Yicong Zhou, Peiyue Li, Zhenxian Liu, “Image Recognition based on Multi-scale Feature Fusion Transformer”, *IEEE International Conference on Artificial Intelligence and Computer Applications*, 7--13, Dalian, China, 2022.
13. Bo Fang, Junxin Chen, Wei Wang, and Yicong Zhou, “Combining Multiple Style Transfer Networks and Transfer Learning for LGE-CMR Segmentation”, *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 1--4, Singapore, 2022.
14. Yongshan Zhang, Xinxin Wang, Zhenyu Wang, Xinwei Jiang, and Yicong Zhou, “Graph Learning Based Autoencoder for Hyperspectral Band Selection”, *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 1--4, Singapore, 2022.
15. Chaozheng Guo, Lin Zhang, Ying Shen, and Yicong Zhou, “ChunkFusion: A Learning-based RGB-D 3D Reconstruction Framework via Chunk-Wise Integration”, *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 1--4, Singapore, 2022.
16. Kaixin Chen, Lin Zhang, Ying Shen, and Yicong Zhou, “Towards Controllable and Physical Interpretable Underwater Scene Simulation”, *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 1--4, Singapore, 2022.
17. Tianjun Zhang, Nlong Zhao, Ying Shen, Xuan Shao, Lin Zhang, and Yicong Zhou, “ROECS: A Robust Semi-direct Pipeline Towards Online Extrinsic Correction of the Surround-view System”, *The 29th ACM International Conference on Multimedia (ACMMM)*, 3153--3161, Chengdu, China, 2021.
18. Yongyong Chen, Shuqin Wang, Chong Peng, Guangming Lu, and Yicong Zhou, “Partial Tubal Nuclear Norm Regularized Multi-view Learning”, *The 29th ACM International Conference on Multimedia (ACMMM)*, 1341--1349, Chengdu, China, 2021.
19. Chang Lu, Rui Wang, Beibei Huang, Yuan Li, Zunkai Huang, Yicong Zhou, and Aiwen Luo, “ALResNet: Attention-Driven Lightweight Residual Network for Fast and Accurate Image Recognition”, *The 4th International Conference on Machine Learning and Machine Intelligence*, 21--29, Hangzhou, China, 2021.
20. Wenkang Li, Ke Qi, Wenbin Chen, and Yicong Zhou, “Unified Batch All Triplet Loss for Visible-Infrared Person Re-identification”, *International Joint Conference on Neural Networks (IJCNN)*, 1--8, Shenzhen, China, 2021.
21. Xuyang Peng, Weifeng Liu, Baodi Liu, Kai Zhang, Xiaoping Lu, and Yicong Zhou, “Leveraging GANs via Non-local Features”, *International Conference on Artificial Neural Networks (ICANN)*, 551--562, Bratislava, Slovakia, 2021.
22. Deng Li, Yue Wu, and Yicong Zhou, “SauvolaNet: Learning Adaptive Sauvola Network for Degraded Document Binarization”, *The 16th International Conference on Document Analysis and Recognition (ICDAR)*, 538--553, Lausanne, Switzerland, 2021.
23. Deng Li, Yue Wu, and Yicong Zhou, “Linecounter: Learning Handwritten Text Line Segmentation by Counting”, *IEEE International Conference on Image Processing (ICIP)*, 929--933, Anchorage, USA, 2021.
24. Yongshan Zhang, Xinxin Wang, Zhihua Cai, Yicong Zhou, and Philip Yu, “Tensor-based Unsupervised Multi-view Feature Selection for Image Recognition”, *IEEE International Conference on Multimedia and Expo (ICME)*, 1--6, Shenzhen, China, 2021.
25. Xuan Shao, Lin Zhang, Tianjun Zhang, Ying Shen, Hongyu Li, and Yicong Zhou, “A Tightly-coupled Semantic SLAM System with Visual, Inertial and Surround-view Sensors for Autonomous Indoor Parking”, *The 28th ACM International Conference on Multimedia (ACMMM)*, 2691--2699, Seattle, USA, 2020.
26. Weizeng Lu, Xi Jia, Weicheng Xie, Linlin Shen, Yicong Zhou, and Jinming Duan, “Geometry Constrained Weakly Supervised Object Localization”, *European Conference on Computer Vision (ECCV)*, 481--496, Glasgow, UK, 2020.
27. Xinyu Zhang, Yantao Wei, Huang Yao, and Yicong Zhou, “Improved Local Covariance Matrix Representation for Hyperspectral Image Classification”, *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, 68--71, Waikoloa, USA, 2020.

28. Jiangtao Peng, Fan Jiang, Weiwei Sun, and Yicong Zhou, “Cauchy NMF for Hyperspectral Unmixing”, *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, 2384--2387, Waikoloa, USA, 2020.
29. Tianjun Zhang, Lin Zhang, Ying Shen, Yong Ma, Shengjie Zhao, and Yicong Zhou, “OECS: Towards Online Extrinsic Correction for the Surround-view System”, *IEEE International Conference on Multimedia and Expo (ICME)*, 1--6, London, UK, 2020.
30. Juntao Chen, Lin Zhang, Ying Shen, Yong Ma, Shengjie Zhao, and Yicong Zhou, “A Study of Parking-slot Detection with the Aid of Pixel-level Domain Adaptation”, *IEEE International Conference on Multimedia and Expo (ICME)*, 1--6, London, UK, 2020.
31. Anqi Zhu, Lin Zhang, Ying Shen, Yong Ma, Shengjie Zhao, and Yicong Zhou, “Zero-shot Restoration of Underexposed Images via Robust Retinex Decomposition”, *IEEE International Conference on Multimedia and Expo (ICME)*, 1--6, London, UK, 2020.
32. Yichen Pan, Weifeng Liu, Yicong Zhou, and Liqiang Nie, “Principal Component Analysis on Graph-Hessian”, *IEEE Symposium Series on Computational Intelligence (SSCI)*, 1494--1501, Xiamen, China, 2019.
33. Xiaoyao Li, Yicong Zhou, and Jing Zhang, “Quaternion Nonlocal Total Variation for Color Image Denoising”, *IEEE International Conference on Systems, Man and Cybernetics (SMC)*, 1602--1607, Bari, Italy, 2019.
34. Zheng Zhou, and Yicong Zhou, “Cross-Channel Similarity based Histograms of Oriented Gradients for Color Face Images”, *IEEE International Conference on Systems, Man and Cybernetics (SMC)*, 1621--1625, Bari, Italy, 2019.
35. Xiaoyao Li, Yicong Zhou, and Jing Zhang, “Color Image Denoising Using Quaternion Adaptive Non-Local Coupled Means”, *IEEE International Conference on Image Processing (ICIP)*, 1810--1814, Taipei, Taiwan, 2019.
36. Yongyong Chen, Xiaolin Xiao, and Yicong Zhou, “Multi-view Clustering via Simultaneously Learning Graph Regularized Low-Rank Tensor Representation and Affinity Matrix”, *IEEE International Conference on Multimedia and Expo (ICME)*, 1348--1353, Shanghai, China, 2019.
37. Yongyong Chen, and Yicong Zhou, “Total Variation Regularized Low-Rank Tensor Approximation for Color Image Denoising”, *IEEE International Conference on Systems, Man and Cybernetics (SMC)*, 2523--2527, Miyazaki, Japan, 2018.
38. Shuang Yi, and Yicong Zhou, “Reversible Data Hiding in Encrypted Images using Prediction-error Encoding”, *IEEE International Conference on Systems, Man and Cybernetics (SMC)*, 1789--1793, Miyazaki, Japan, 2018.
39. Xiaolin Xiao, and Yicong Zhou, “Quaternion Sparse Discriminant Analysis for Color Face Recognition”, *IEEE International Conference on Multimedia and Expo (ICME)*, 1--6, San Diego, USA, 2018.
40. Xiaoyao Li, Yicong Zhou, Jing Zhang, and Lianhong Wang, “Unbiased Distance based Non-Local Fuzzy Means”, *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 1423--1427, Calgary, Canada, 2018.
41. Xiaolin Xiao, and Yicong Zhou, “Two-Dimensional Quaternion Sparse Principal Component Analysis”, *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 1528--1532, Calgary, Canada, 2018.
42. Yongyong Chen, and Yicong Zhou, “Robust Principal Component Analysis with Matrix Factorization”, *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2411--2415, Calgary, Canada, 2018.
43. Qingxiang Feng, and Yicong Zhou*, “Discriminant Projection Representation-based Classification for Vision Recognition”, *The Thirty-Second AAAI Conference on Artificial Intelligence (AAAI)*, 2208--2214, New Orleans, USA, 2018.
44. Shuang Yi, and Yicong Zhou, “Adaptive Code Embedding for Reversible Data Hiding in Encrypted Images” *IEEE International Conference on Image Processing (ICIP)*, 4322--4326, Beijing, China, 2017.
45. Weijia Cao, and Yicong Zhou, “4×4 Parametric Integer Discrete Cosine Transforms”, *IEEE International Conference on Systems, Man and Cybernetics (SMC)*, 3467--3470, Banff, Canada, 2017.
46. Xiaolin Xiao, and Yicong Zhou, “Focusness Guided Salient Object Detection”, *IEEE International Conference on Systems, Man and Cybernetics (SMC)*, 3462--3466, Banff, Canada, 2017.
47. Rushi Lan, and Yicong Zhou, “An Extended Probabilistic Collaborative Representation based Classifier for Image Classification”, *IEEE International Conference on Multimedia and Expo (ICME)*, 1392--1397, Hong Kong, China, 2017.
48. Weijia Cao, and Yicong Zhou, “Parametric Integer Cosine Transform”, *IEEE International Conference on Cybernetics (CYBCONF)*, 1--4, Exeter, UK, 2017.

49. Zhou Zhao, and Yicong Zhou, “An Image Contrast Enhancement Algorithm Using PLIP-based Histogram Modification”, *IEEE International Conference on Cybernetics (CYBCONF)*, 1--4, Exeter, UK, 2017.
50. Xiaolin Xiao, Yue-Jiao Gong, and Yicong Zhou, “Adaptive Superpixel Segmentation Aggregating Local Contour and Texture Features”, *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 1902--1906, New Orleans, USA, 2017.
51. Shuang Yi, and Yicong Zhou, “Improved Reversible Data Hiding in Encrypted Images using Histogram Modification”, *IEEE International Conference on Systems, Man and Cybernetics (SMC)*, 4819--4823, Budapest, Hungary, 2016.
52. Rushi Lan, and Yicong Zhou, “Quaternion Decomposition Based Discriminant Analysis for Color Face Recognition”, *IEEE International Conference on Systems, Man and Cybernetics (SMC)*, 1833--1837, Budapest, Hungary, 2016.
53. Zhou Zhao, and Yicong Zhou, “Comparative Study of Logarithmic Image Processing Models for Medical Image Enhancement”, *IEEE International Conference on Systems, Man and Cybernetics (SMC)*, 1046--1050, Budapest, Hungary, 2016.
54. Jiangtao Peng, and Yicong Zhou, “Ideal Regularized Kernels for Hyperspectral Image Classification”, *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, 3274--3277, Beijing, China, 2016.
55. Yantao Wei, and Yicong Zhou, “Stacked Tensor Subspace Learning for Hyperspectral Image Classification”, *International Joint Conference on Neural Networks (IJCNN)*, 1985--1992, Vancouver, Canada, 2016.
56. Yue-Jiao Gong, Yicong Zhou, and Xinglin Zhang, “A Superpixel Segmentation Algorithm based on Differential Evolution”, *IEEE International Conference on Multimedia and Expo (ICME)*, 1--6, Seattle, USA, 2016.
57. Qingxiang Feng, Yicong Zhou*, and Rushi Lan, “Pairwise Linear Regression Classification for Image Set Retrieval”, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 4865--4872, Las Vegas, USA, 2016.
58. Zhou Zhao, and Yicong Zhou, “PLIP Based Unsharp Masking for Medical Image Enhancement”, *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 1238--1242, Shanghai, China, 2016.
59. Qingxiang Feng, and Yicong Zhou, “Iterative Linear Regression Classification for Image Recognition”, *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 1566--1570, Shanghai, China, 2016.
60. Zhongyun Hua, and Yicong Zhou, “Image Content-based Encryption Algorithm Using High-Dimensional Chaotic System”, *International Symposium on Nonlinear Theory and its Applications (NOLTA)*, 554--557, Hong Kong, China, 2015.
61. Zhongyun Hua, Yiran Wang, and Yicong Zhou, “Image Cipher Using a New Interactive Two-Dimensional Chaotic Map”, *IEEE International Conference on Systems, Man and Cybernetics (SMC)*, 1804--1808, Hong Kong, China, 2015.
62. Rushi Lan, Yicong Zhou, Y. Y. Tang, and C. L. Philip Chen, “Image Denoising Using Non-local Fuzzy Means”, *IEEE China Summit & International Conference on Signal and Information Processing (ChinaSIP)*, 196--200, Chengdu, China, 2015
63. Shuang Yi, and Yicong Zhou, “An Improved Reversible Data Hiding Algorithm in Encrypted Images”, *IEEE China Summit & International Conference on Signal and Information Processing (ChinaSIP)*, 225--229, Chengdu, China, 2015
64. Lunbo Chen, Yicong Zhou, and C. L. Philip Chen, “Quaternion-based Color Difference Measure for Removing Impulse Noise in Color Images”, *International Conference on Informative and Cybernetics for Computational Social Systems (ICCSS)*, 123--127, Qingdao, China, 2014.
65. Jiangtao Peng, Yicong Zhou, and C. L. Philip Chen, “Multi-scale Patch Based Box Kernels for Hyperspectral Image Classification”, *IEEE International Conference on Systems, Man and Cybernetics (SMC)*, 3203--3208, San Diego, USA, 2014.
66. Long Bao, Yicong Zhou, and C. L. Philip Chen, “A Lossless (2, 8)-Chaos-based Secret Image Sharing”, *IEEE International Conference on Systems, Man and Cybernetics (SMC)*, 3209--3214, San Diego, USA, 2014.
67. Shuang Yi, Yicong Zhou, Chi Man Pun, and C. L. Philip Chen, “A New Reversible Data Hiding Algorithm in the Encryption Domain”, *IEEE International Conference on Systems, Man and Cybernetics (SMC)*, 3215--3220, San Diego, USA, 2014.
68. Zhongyun Hua, Yicong Zhou, Chi Man Pun, and C. L. Philip Chen, “Image Encryption Using 2D Logistic-Sine Chaotic Map”, *IEEE International Conference on Systems, Man and Cybernetics (SMC)*, 3229--3234, San Diego, USA, 2014.

69. Licheng Liu, C. L. Philip Chen, and Yicong Zhou, "Impulse Noise Removal using Sparse Representation with Fuzzy Weights", *IEEE International Conference on Systems, Man and Cybernetics (SMC)*, 4052--4057, San Diego, USA, 2014.
70. Jiangtao Peng, Yicong Zhou, and C. L. Philip Chen, "Spatial-Spectral Metric Learning for Hyperspectral Remote Sensing Image Classification", *Proceedings of SPIE 9222*, 92220K, San Diego, USA, 2014.
71. Weifeng Li, Norman Poh, and Yicong Zhou, "Combining Two Strategies to Optimize Biometric Decisions Against Spoofing Attacks", *Proceedings of SPIE 9216*, 92161H, San Diego, USA, 2014.
72. Rushi Lan, Yicong Zhou, Y. Y. Tang, and C. L. Philip Chen, "Person Reidentification Using Quaternionic Local Binary Pattern", *IEEE International Conference on Multimedia & Expo (ICME)*, 1--6, Chengdu, China, 2014.
73. Zhongyun Hua, Yicong Zhou, Chi-Man Pun, and C. L. Philip Chen, "A New 1D Parameter-Control Chaotic Framework", *Proceedings of SPIE 9030*, 90300M, San Francisco, USA, 2014.
74. Shuang Yi, Yicong Zhou, Chi-Man Pun, and C. L. Philip Chen, "A New Collage Steganographic Algorithm Using Cartoon Design", *Proceedings of SPIE 9030*, 90300N, San Francisco, USA, 2014.
75. Chengzhe Yin, Yicong Zhou, Sos Agaian, and C. L. Philip Chen, "Parametric Rational Unsharp Masking for Image Enhancement", *Proceedings of SPIE 9019*, 90190W, San Francisco, USA, 2014.
76. Lunbo Chen, Yicong Zhou, and C. L. Philip Chen, "Nonlocal Means Algorithm Using Superformula Kernel for Image Denoising", *IEEE Region 10 Conference*, 1--4, Xi'an China, 2013.
77. Han Cao, Yicong Zhou, and C. L. Philip Chen, "Image Double Encryption Based on Parametric Discrete Cosine Transform", *IEEE Region 10 Conference*, 1--4, Xi'an China, 2013.
78. Zuodong Yang, Yong Wu, Yinyan Jiang, Yicong Zhou, Longbiao Wang, Weifeng Li, and Qingmin Liao, "Local Consistency Preserved Coupled Mappings for Low-resolution Face Recognition", *Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA)*, 1--4, Kaohsiung, Taiwan, 2013.
79. Zhongyun Hua, Yicong Zhou, and C. L. Philip Chen, "A Series-Wound Framework for Generating 1D Chaotic Maps", *IEEE Digital Signal Processing & Signal Processing Education Meeting (DSP/SPE)*, 118--123, Napa, USA, 2013.
80. Licheng Liu, Yicong Zhou, and C. L. Philip Chen, "A New Selective Filtering Algorithm for Image Denoising", *IEEE Digital Signal Processing & Signal Processing Education Meeting (DSP/SPE)*, 193--197, Napa, USA, 2013.
81. Long Bao, Yicong Zhou, and C. L. Philip Chen, "Image Encryption in the Wavelet Domain", *Proceedings of SPIE 8755*, 875501A, Baltimore, USA, 2013.
82. Weijia Cao, Yicong Zhou, and C. L. Philip Chen, "A New Image Encryption Algorithm Using Truncated P-Fibonacci Bit-planes", *IEEE International Conference on Systems, Man and Cybernetics (SMC)*, 1185--1188, Seoul, Korea, 2012.
83. C. L. Philip Chen, Tong Zhang, and Yicong Zhou, "Image Encryption Algorithm Based on A New Combined Chaotic System", *IEEE International Conference on Systems, Man and Cybernetics (SMC)*, 2500--2504, Seoul, Korea, 2012.
84. Tong Zhang, Yicong Zhou, and C. L. Philip Chen, "A New Combined Chaotic System for Image Encryption", *IEEE International Conference on Computer Science and Automation Engineering (CSAE)*, 331--335, Zhangjiajie, China, 2012.
85. Long Bao, Yicong Zhou, C. L. Philip Chen, and Hongli Liu, "A New Chaotic System for Image Encryption", *IEEE International Conference on System Science and Engineering (ICSSE)*, 69--73, Dalian, China, 2012.
86. Yicong Zhou, and Sos Agaian, "Image Encryption Using the Image Steganography Concept and PLIP Model", *IEEE International Conference on System Science and Engineering (ICSSE)*, 699--703, Macau, China, 2011.
87. Sarkis Agaian, and Yicong Zhou, "Generalized Phi Number System and its Applications for Image Decomposition and Enhancement", *Proceedings of SPIE 7881*, 78810M, San Jose, USA, 2011.
88. Yicong Zhou, Karen Panetta, and Sos Agaian, "3D CT baggage image enhancement based on order statistic decomposition", *IEEE International Conference on Technologies for Homeland Security*, 287--291, Waltham, USA, 2010.
89. Yicong Zhou, Karen Panetta, and Sos Agaian, "Nonlinear Filtering for Enhancing Prostate MR Images via Alpha-Trimmed Mean Separation", *IEEE International Conference on Systems, Man and Cybernetics (SMC)*, 3698--3701, Istanbul, Turkey, 2010.

90. Yicong Zhou, Karen Panetta, and Sos Agaian, "Human Visual System Based Mammogram Enhancement and Analysis", *IEEE International Conference on Image Processing Theory Tools and Applications (IPTA)*, 229--234, Paris, France, 2010.
91. Yicong Zhou, Karen Panetta, and Sos Agaian, "CT Baggage Image Enhancement Using a Combination of Alpha-Weighted Mean Separation and Histogram Equalization", *Proceedings of SPIE 7708*, 77080G, Orlando, USA, 2010.
92. Yue Wu, Yicong Zhou, Joseph P. Noonan, Karen Panetta, and Sos Agaian, "Image Encryption Using the Sudoku Matrix", *Proceedings of SPIE 7708*, 77080P, Orlando, USA, 2010.
93. Li Lu, Yicong Zhou, Karen Panetta, and Sos Agaian, "Comparative Study of Histogram Equalization Algorithms for Image Enhancement", *Proceedings of SPIE 7708*, 770811, Orlando, USA, 2010.
94. Yicong Zhou, Karen Panetta, and Sos Agaian, "Image Encryption Using Discrete Parametric Cosine Transform", *The 43rd Annual Asilomar IEEE Conference on Signals, Systems and Computers (ACSSC)*, 395--399, Pacific Grove, USA, 2009.
95. Yicong Zhou, Karen Panetta, and Sos Agaian, "Image Encryption Algorithms Based on Generalized P-Gray Code Bit Plane Decomposition", *The 43rd Annual Asilomar IEEE Conference on Signals, Systems and Computers (ACSSC)*, 400--404, Pacific Grove, USA, 2009.
96. Yicong Zhou, Karen Panetta, and Sos Agaian, "Image Encryption Using Binary Key-images", *IEEE International Conference on Systems, Man and Cybernetics (SMC)*, 4569--4574, San Antonio, USA, 2009.
97. Yicong Zhou, Karen Panetta, and Sos Agaian, "A Lossless Encryption Method for Medical Images Using Edge Maps", *The 31st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBS)*, 3707--3710, Minneapolis, USA, 2009.
98. Yicong Zhou, Karen Panetta, and Sos Agaian, "Mammogram Enhancement Using Alpha Weighted Quadratic Filter", *The 31st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBS)*, 3681--3684, Minneapolis, USA, 2009.
99. Yicong Zhou, Karen Panetta, Ravindranath Cherukuri, and Sos Agaian, "Selective Object Encryption for Privacy Protection", *Proceedings of SPIE 7351*, 73510F, Orlando, USA, 2009.
100. Yicong Zhou, Karen Panetta, and Sos Agaian, "Image Encryption Based on Edge Information", *Proceedings of SPIE 7256*, 725603, San Jose, USA, 2009.
101. Yicong Zhou, Karen Panetta, and Sos Agaian, "Comparison of Recursive Sequence Based Image Scrambling Algorithms", *IEEE International Conference on Systems, Man and Cybernetics (SMC)*, 697--701, Singapore, 2008.
102. Yicong Zhou, Karen Panetta, and Sos Agaian, "An Image Scrambling Algorithm Using Parameter Based M-sequences", *IEEE International Conference on Machine Learning and Cybernetics*, 3695--3698, Kunming, China, 2008.
103. Yicong Zhou, Karen Panetta, and Sos Agaian, "Partial Multimedia Encryption with Different Security Levels", *IEEE Conference on Technologies for Homeland Security*, 513--518, Waltham, USA, 2008.
104. Yicong Zhou, Karen Panetta, and Sos Agaian, "P-recursive Sequence and Key-dependent Multimedia Scrambling", *Proceedings of SPIE 6982*, 69820H, Orlando, USA, 2008.
105. Yicong Zhou, Sos Agaian, Valencia M. Joyner, and Karen Panetta, "Two Fibonacci P-code Based Image Scrambling Algorithms", *Proceedings of SPIE 6812*, 681215, San Jose, USA, 2008.