DR. YICONG ZHOU

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Highlights:

- Fellow of SPIE (the Society of Photo-Optical Instrumentation Engineers), 2021.
- "Highly Cited Researcher", Clarivate, 2020--2021, 2023--2025.
- "Top Cited Scholar", Scilit, 2023--2025
- "Highly Ranked Scholar – Prior Five Years", ScholarGPS, 2022--2025
- "World's Top 2% Scientist", 2020 -- 2025.
- 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
- 340+ published articles (150+ 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
- Associate Professor, University of Macau, Macau, China
- Assistant Professor, University of Macau, Macau, China

Research Interests

Remote Sensing Imaging, Computer Vision, 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, 2026
  - *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, 2013
- **Area Chairs:**
  - ACM International Conference on Multimedia (ACMMM), 2023--present
  - IEEE International Conference on Multimedia and Expo (ICME), 2021--present
  - IEEE International Conference on Image Processing (ICIP), 2019--present
- **Senior Program Committee Member:**
  - AAAI Conference on Artificial Intelligence (AAAI), 2025--present
  - International Conference on Neural Information Processing (ICONIP), 2020
- **Program Committee Members:**
  - IEEE International Conference on Systems, Man, and Cybernetics (SMC), 2012--present
  - AAAI Conference on Artificial Intelligence (AAAI), 2020--2024
  - 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 Provence 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--2025
- Top Cited Scholar, *Scilit*, 2023--2025
- Highly Ranked Scholar – Prior Five Years, *ScholarGPS*, 2022--2025
- 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, MOP 1,165,000.
- **PI**, "Remote Sensing Image Stitching Technologies in Quaternion Domain", *Macau Science and Technology Development Fund*, 12/2022--12/2025, MOP 2,000,000.
- **PI**, "Remote Sensing Information Encryption Technologies", *Beijing Talentwish Technology Limited*, 01/2022--12/2022, RMB 200,000.
- **PI**, "Applied Remote Sensing Technologies of Typical Region Ecological Environment", *Aerospace Information Research Institute, Chinese Academy of Science*, 06/2021--01/2023, RMB 2,000,000.
- **PI**, "Urban Object Classification Using Hyperspectral Satellite Remote Sensing Images", *Aerospace Information Research Institute, Chinese Academy of Science*, 03/2021--03/2022, RMB 600,000.
- **PI**, "Set-to-Sample-Transform-based Image Set Classification Technologies", *Macau Science and Technology Development Fund*, 05/2018--05/2021, MOP 1,604,000.
- **PI**, "Multimedia Encryption Technologies", *Macau Science and Technology Development Fund*, 01/2016--08/2018, MOP 1,389,000.
- **PI**, "Face Feature Extraction and Matching Technologies for Person Identification and Tracking", *Macau Science and Technology Development Fund*, 06/2014--09/2016, MOP 788,000.
- **PI**, "Novel and Robust Technologies for Image Encryption", *Macau Science and Technology Development Fund*, 01/2013--12/2015, MOP 2,109,000.

Internal Grants:

- **PI**, "Quantum-inspired Deep Learning Technologies for Hyperspectral Image Super-resolution", *The Research Committee of University of Macau*, 01/2025--12/2026, MOP 280,000.
- **PI**, "Color Image Stitching Technologies", *The Research Committee of University of Macau*, 01/2023--12/2024, MOP 384,000.
- **PI**, "Nonlinear Chaotic Operations with Hardware Implementation", *The Research Committee of University of Macau*, 01/2019--12/2021, MOP 889,700.
- **PI**, "Hyperspectral Image Classification Technologies", *The Research Committee of University of Macau*, 01/2017--12/2019, MOP 1,485,000.
- **PI**, "Parametric Discrete Orthogonal Transforms for Multimedia Encryption", *The Research Committee of University of Macau*, 04/2014--12/2017, MOP 1,500,000.
- **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, MOP1,024,450.
- **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, MOP 100,000.

Teaching courses

- BSc. courses:
  - Pattern Recognition, 2018--present
  - Computer Networks, 2013-2015
  - Distributed Systems, 2011-2013
- MSc. courses:
  - Computer Vision and Pattern Recognition, 2020--present
  - Advances in Pattern Recognition, 2019
  - Computer Communications and Networks, 2012--2018
  - Computer Networks and Internet, 2012--2018
- Ph.D. courses:
  - Advanced Topics in Computer Science, 2019--present

Student supervision:

Ph.D. Students	Year of Graduation	Current position	Institutes
Xinxin Wang	2025	Lecturer	Shenzhen University
Jiaxue Li	2024	Lecturer	China University of Geosciences (Beijing)
Zheng Zhou	2023	Lecturer	Guangzhou University
Yongyong Chen	2020	Associate Professor	Harbin Institute of Technology (Shenzhen)
Xiaolin Xiao	2019	Associate Professor	South China Normal University
Shuang Yi	2018	Lecturer	Southwest University of Political Science and Law
Qingxiang Feng	2018	Associate Professor	Beijing University of Posts and Telecommunications
Weijia Cao	2017	Associate Professor	Aerospace Information Research Institute, Chinese Academy of Sciences
Zhongyun Hua	2016	Professor	Harbin Institute of Technology (Shenzhen)
Rushi Lan	2016	Professor	Guilin University of Electronic Technology

Publications

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

Journal Papers: (*corresponding author)

1. Shuai Shao, Shiyuan Zhao, Rui Xu, Yan Wang, Baodi Liu, Weifeng Liu, and Yicong Zhou, "Excluding the Interference for Open-Vocabulary Semantic Segmentation", **IEEE Transactions on Circuits and Systems for Video Technology**, in press, 2025.
2. Long Sun, Guopu Zhu, Hongli Zhang, Xinpeng Zhang, Yicong Zhou, and Ligang Wu, "Test-time Adaptation for Detecting Image Inpainting Forgeries", **IEEE Transactions on Cybernetics**, in press, 2025.
3. Yuanchao Su, Sheng Li, Yicong Zhou*, Lianru Gao, Mengying Jiang, Xu Sun, Haiwei Li, and Enke Hou, "Dilated Transformation-Guided Unsupervised Multimodal Learning for Hyperspectral and Multispectral Image Fusion", **IEEE Transactions on Geoscience and Remote Sensing**, in press, 2025.

4. Xiaofei Yang, Sihuan Li, Weijia Cao, Dong Tang, Yifang Ban and Yicong Zhou, "RWKVSR: Receptance Weighted Key-Value Network for Hyperspectral Image Super-Resolution", **IEEE Transactions on Circuits and Systems for Video Technology**, in press, 2025.
5. Xinxin Wang, Yongshan Zhang, Jie Zhang, and Yicong Zhou*, "Incomplete Multiview Clustering using Discriminative Feature Recovery and Tensorized Matrix Factorization", **IEEE Transactions on Circuits and Systems for Video Technology**, 35(11), 10716–10727, 2025.
6. Xiaolin Xiao, Yuejiao Gong, and Yicong Zhou, "Learning Orthogonal Latent Representations for Multi-View Clustering", **IEEE Transactions on Multimedia**, 27, 8565–8578, 2025.
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**, 10(4), 2862–2875, 2025.
8. Xinxin Wang, Yongshan Zhang, and Yicong Zhou*, "Pseudo Supervision Affinity Propagation for Efficient and Scalable Multi-View Clustering", **IEEE Transactions on Neural Networks and Learning Systems**, 36(8), 15282–15293, 2025.
9. Xinxin Wang, Yongshan Zhang, and Yicong Zhou*, "Bidirectional Probabilistic Multi-graph Learning and Decomposition for Multi-view Clustering", **IEEE Transactions on Image Processing**, 34, 3609–3621, 2025.
10. Yuwu Lu, Dewei Lin, Linlin Shen, Yicong Zhou, and Jiahui Pan, "Heterogeneous Domain Adaptation via Correlative and Discriminative Feature Learning", **IEEE Transactions on Multimedia**, 27, 3447–3461, 2025.
11. 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**, 27, 3279–3293, 2025.
12. Xiaojie Yu, Benguo He, Xu Xu, Yicong Zhou, Miguel A. Diaz, Junxin Chen, and David Camacho, "Application of Artificial Intelligence in Rock Tunnel Engineering: A Survey on Where and How", *Expert Systems*, 42(7), e70080, 2025.
13. Siheng He, Zijia Wang, Yuangen Wang, Yicong Zhou and Sam Kwong, "Diffusion-based dynamic super-dense candidate boxes with random center points for 3D object detection", *Applied Soft Computing*, 178, 113181, 2025.
14. Chenxing Xia, Chaofan Liu, Yicong Zhou, and Kuan-Ching Li, "VLDFNet: Views-Graph and Latent Feature Disentangled Fusion Network for Multimodal Industrial Anomaly Detection", **IEEE Transactions on Instrumentation and Measurement**, 74, 4509613, 2025.
15. 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**, 9(2), 1766–1779, 2025.
16. 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**, 21(4), 106, 2025.
17. Xinxin Wang, Yongshan Zhang, and Yicong Zhou*, "Multimodal Remote Sensing Image Clustering with Multi-scale Spectral-Spatial Anchor Graphs", **IEEE Transactions on Geoscience and Remote Sensing**, 63, 4405612, 2025.
18. 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**, 35(3), 2646–2661, 2025.
19. Xiaofei Yang, Weijia Cao, Dong Tang, Yao Lu, and Yicong Zhou*, "ACTN: Adaptive Coupling Transformer Network for Hyperspectral Image Classification", **IEEE Transactions on Geoscience and Remote Sensing**, 63, 5503115, 2025.
20. 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**, 72(1), 323–336, 2025.
21. Jiaxue Li, and Yicong Zhou*, "Seam-Adaptive Structure-Preserving Image Stitching for Drone Images", **IEEE Transactions on Geoscience and Remote Sensing**, 63, 5601412, 2025.
22. 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.

23. Dongchen Han, Baodi Liu, Shuai Shao, Weifeng Liu, and Yicong Zhou, "Feature Aggregation and Connectivity for Object Re-identification", *Pattern Recognition*, 157, 110869, 2025.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.
32. 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.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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.
38. 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.
39. 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)
40. 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.

41. 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.
42. 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.
43. Jinkun You, and Yicong Zhou*, "Two-Stage Watermark Removal Framework for Spread Spectrum Watermarking", **IEEE Transactions on Multimedia**, 26, 7687--7699, 2024.
44. 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**, 34(4), 2166–2178, 2024.
45. Sichao Lei, Yuejiao 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.
46. 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.
47. Jiaxue Li, and Yicong Zhou*, "Automatic Quaternion-Domain Color Image Stitching", **IEEE Transactions on Image Processing**, 33, 1299--1312, 2024.
48. 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.
49. 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.
50. 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.
51. 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.
52. 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.
53. 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.
54. 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.
55. Sichao Lei, Yuejiao 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.
56. 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.
57. 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.
58. 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.

59. 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.
60. 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.
61. 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.
62. 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.
63. 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.
64. 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.
65. 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.
66. 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.
67. 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.
68. 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.
69. 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.
70. 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)
71. 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.
72. 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.
73. 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.
74. 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.
75. 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.
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