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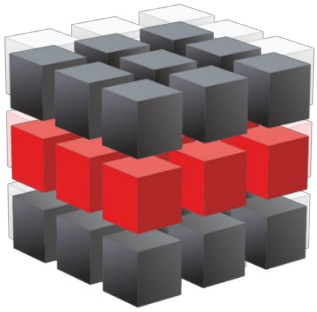

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CHENNAI – PONDICHERRY

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MATLAB Image Processing/Communication Title List 2020-2021

MATLAB -IMAGE PROCESSING

1. Multispectral Interlaced Sparse Sampling Photoacoustic Tomography

   Published in: IEEE Transactions on Medical Imaging (Early Access)

2. Binocular Light-Field: Imaging Theory and Occlusion-Robust Depth Perception Application

   Published in: IEEE Transactions on Image Processing (Volume: 29)

3. Two-Stage Convolutional Neural Network for Medical Noise Removal via Image Decomposition

   Published in: IEEE Transactions on Instrumentation and Measurement (Volume: 69 , Issue: 6 , June 2020)

4. Towards Real-Time Computing of Intraoperative Hyperspectral Imaging for Brain Cancer Detection Using Multi-GPU Platforms

   Published in: IEEE Access (Volume: 8)

5. Low-Rank Quaternion Approximation for Color Image Processing

   Published in: IEEE Transactions on Image Processing (Volume: 29)

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6. An Optical Image Transmission System for Deep Sea Creature Sampling Missions Using Autonomous Underwater Vehicle

   Published in: IEEE Journal of Oceanic Engineering (Volume: 45 , Issue: 2 , April 2020)

7. Stereoscopic Image Generation from Light Field with Disparity Scaling and Super-Resolution

   Published in: IEEE Transactions on Image Processing (Volume: 29)

8. MDLatLRR: A Novel Decomposition Method for Infrared and Visible Image Fusion

   Published in: IEEE Transactions on Image Processing (Volume: 29)

9. DDcGAN: A Dual-Discriminator Conditional Generative Adversarial Network for Multi-Resolution Image Fusion

   Published in: IEEE Transactions on Image Processing (Volume: 29)

10. BID: An Effective Blind Image Deblurring Scheme to Estimate the Blur Kernel for Various Scenarios

    Published in: IEEE Access (Volume: 8)

11. An Application of Transfer Learning and Ensemble Learning Techniques for Cervical Histopathology Image Classification

    Published in: IEEE Access (Volume: 8)

12. Variational Osmosis for Non-Linear Image Fusion

    Published in: IEEE Transactions on Image Processing (Volume: 29)

13. Image Recovery via Transform Learning and Low-Rank Modeling: The Power of Complementary Regularizers

    Published in: IEEE Transactions on Image Processing (Volume: 29)

14. Super-Resolution of Optical Coherence Tomography Images by Scale Mixture Models

    Published in: IEEE Transactions on Image Processing (Volume: 29)

15. Soft-Edge Assisted Network for Single Image Super-Resolution

    Published in: IEEE Transactions on Image Processing (Volume: 29)

16. Optimization for Medical Image Segmentation: Theory and Practice when evaluating with Dice Score or Jaccard Index

    Published in: IEEE Transactions on Medical Imaging (Early Access)

17. Image interpolation with adaptive k-nearest neighbours search and random non-linear regression

    Published in: IET Image Processing (Volume: 14 , Issue: 8 , 6 19 2020)

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18. Flexible Prediction of CT Images from MRI Data through Improved Neighborhood Anchored Regression for PET Attenuation Correction

    Published in: IEEE Journal of Biomedical and Health Informatics (Volume: 24 , Issue: 4 , April 2020)

19. Local Neighbourhood Image Properties for Exposure Region Determination Method in Nonuniform Illumination Images

    Published in: IEEE Access (Volume: 8)

20. Generating Stereoscopic Images With Convergence Control Ability From a Light Field Image Pair

    Published in: IEEE Transactions on Circuits and Systems for Video Technology (Volume: 30 , Issue: 5 , May 2020)

21. Deep Learning Based Spectral Unmixing for Optoacoustic Imaging of Tissue Oxygen Saturation

    Published in: IEEE Transactions on Medical Imaging (Early Access)

22. Deep Learning for Multiple-Image Super-Resolution

    Published in: IEEE Geoscience and Remote Sensing Letters (Volume: 17 , Issue: 6 , June 2020)

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23. Single Image Highlight Removal for Real-Time Image Processing Pipelines

    Published in: IEEE Access (Volume: 8)

24. Image Processing Methods for Coronal Hole Segmentation, Matching, and Map Classification

    Published in: IEEE Transactions on Image Processing (Volume: 29)

25. A Comprehensive Review for Breast Histopathology Image Analysis Using Classical and Deep Neural Networks

    Published in: IEEE Access (Volume: 8)

26. Model-Based and Data-Driven Strategies in Medical Image Computing

Published in: Proceedings of the IEEE (Volume: 108 , Issue: 1 , Jan. 2020)

27. Multi-Scale Deep Residual Learning-Based Single Image Haze Removal via Image Decomposition

    Published in: IEEE Transactions on Image Processing (Volume: 29)

28. Image-based Artefact Removal in Laser Scanning Microscopy

    Published in: IEEE Transactions on Biomedical Engineering (Volume: 67 , Issue: 1 , Jan. 2020)

29. High-Resolution Encoder–Decoder Networks for Low-Contrast Medical Image Segmentation

    Published in: IEEE Transactions on Image Processing (Volume: 29)

30. A Flexible Deep CNN Framework for Image Restoration

    Published in: IEEE Transactions on Multimedia (Volume: 22 , Issue: 4 , April 2020)

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31. Exploiting Epistemic Uncertainty of Anatomy Segmentation for Anomaly Detection in Retinal OCT

    Published in: IEEE Transactions on Medical Imaging (Volume: 39 , Issue: 1 , Jan. 2020)

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32. Image Dehazing by An Artificial Image Fusion Method based on Adaptive Structure Decomposition

    Published in: IEEE Sensors Journal (Volume: 20 , Issue: 14 , July15, 15 2020)

33. Deep Non-local Kalman Network for Video Compression Artifact Reduction

    Published in: IEEE Transactions on Image Processing (Volume: 29)

MATLAB COMMUNICATION

34. Joint Multicast Beamforming and Relay Design for Maritime Communication Systems

    Published in: IEEE Transactions on Green Communications and Networking (Volume: 4 , Issue: 1 , March 2020)

35. Networked Optical Massive MIMO Communications

    Published in: IEEE Transactions on Wireless Communications (Early Access)

36. On the Content Delivery Efficiency of NOMA Assisted Vehicular Communication Networks With Delay Constraints

    Published in: IEEE Wireless Communications Letters (Volume: 9 , Issue: 6 , June 2020)

37. Data-Rate Driven Transmission Strategies for Deep Learning-Based Communication Systems

    Published in: IEEE Transactions on Communications (Volume: 68 , Issue: 4 , April 2020)

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38. Covert Communication in Downlink NOMA Systems with Random Transmit Power

    Published in: IEEE Wireless Communications Letters (Early Access)

39. Cooperative Communication and Energy-Harvesting-Enabled Energy-Efficient Design of MI-Based Clustered Nonconventional WSNs

    Published in: IEEE Systems Journal (Volume: 14 , Issue: 2 , June 2020)

40. Performance Analysis of NOMA Assisted Underwater Visible Light Communication System

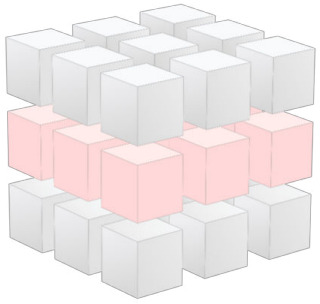
    Published in: IEEE Wireless Communications Letters (Early Access)

41. Multi-Frequency Multi-Scenario Millimeter Wave MIMO Channel Measurements and Modeling for B5G Wireless Communication Systems

    Published in: IEEE Journal on Selected Areas in Communications (Early Access)

42. Accuracy Enhancement of Moments-Based OSNR Monitoring in QAM Coherent Optical Communication

    Published in: IEEE Communications Letters (Volume: 24 , Issue: 4 , April 2020)



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