# Mengdao Xing

List of Publications by Year
in descending order

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| 463 | 9,440 | 38742 50 | 64796 79 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 464 | 464 | 464 | 2709 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | SAR Ground Maneuvering Targets Imaging and Motion Parameters Estimation Based on the Adaptive Polynomial Fourier Transform. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5. | 3.1 | 2 |
| 2 | Modified ERMA With Generalized Resampling for Maneuvering Highly Squinted TOPS SAR. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5. | 3.1 | 3 |
| 3 | First Demonstration of Using Signal Processing Approach to Suppress Signal Ringing in Impulse UWB Through-Wall Radar. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5. | 3.1 | 2 |
| 4 | Deep Mutual GAN for Life-Detection Radar Super Resolution. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5. | 3.1 | 5 |
| 5 | A Postmatched-Filtering Image-Domain Subspace Method for Channel Mismatch Estimation of Multiple Azimuth Channels SAR. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14. | 6.3 | 4 |
| 6 | Joint Estimation of Satellite Attitude and Size Based on ISAR Image Interpretation and Parametric Optimization. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17. | 6.3 | 7 |
| 7 | Focusing Translational-Variant Bistatic Forward- Looking SAR Data Using the Modified Omega-K Algorithm. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16. | 6.3 | 5 |
| 8 | Oriented Gaussian Function-Based Box Boundary-Aware Vectors for Oriented Ship Detection in Multiresolution SAR Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15. | 6.3 | 15 |
| 9 | Ultrahigh-Resolution Autofocusing for Squint Airborne SAR Based on Cascaded MD-PGA. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5. | 3.1 | 6 |
| 10 | Moving Target Radial Velocity Estimation Method for HRWS SAR System Based on Subspace Projection. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5. | 3.1 | 4 |
| 11 | An Improved SRGAN Based Ambiguity Suppression Algorithm for SAR Ship Target Contrast Enhancement. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5. | 3.1 | 7 |
| 12 | Spaceborne Synthetic Aperture Radar Imaging Algorithms: An overview. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 161-184. | 9.6 | 29 |
| 13 | Multiple Statistics Contributing to Few-Sample Deep Learning for Subtle Trace Detection in High-Resolution SAR Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14. | 6.3 | 3 |
| 14 | 2-D Frequency Autofocus for Squint Spotlight SAR Imaging With Extended Omega-K. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12. | 6.3 | 11 |
| 15 | Polarization Image Demosaicking via Nonlocal Sparse Tensor Factorization. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10. | 6.3 | 5 |
| 16 | Integrating the Reconstructed Scattering Center Feature Maps With Deep CNN Feature Maps for Automatic SAR Target Recognition. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5. | 3.1 | 8 |
| 17 | AIS Data Aided Rayleigh CFAR Ship Detection Algorithm of Multiple-Target Environment in SAR Images. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 1266-1282. | 4.7 | 11 |
| 18 | CANet: An Unsupervised Deep Convolutional Neural Network for Efficient Cluster-Analysis-Based Multibaseline InSAR Phase Unwrapping. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15. | 6.3 | 18 |

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| 19 | EFTL: Complex Convolutional Networks With Electromagnetic Feature Transfer Learning for SAR Target Recognition. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11. | 6.3 | 17 |
| 20 | Azimuth Variant Motion Error Compensation Algorithm for Airborne SAR Imaging Based on Doppler Adjustment. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5. | 3.1 | 3 |
| 21 | A Real-Time Unified Focusing Algorithm (RT-UFA) for Multi-Mode SAR via Azimuth Sub-Aperture Complex-Valued Image Combining and Scaling. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17. | 6.3 | 5 |
| 22 | SAR Target Classification Using the Multikernel-Size Feature Fusion-Based Convolutional Neural Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13. | 6.3 | 42 |
| 23 | Efficient Fast Time-Domain Processing Framework for Airborne Bistatic SAR Continuous Imaging Integrated With Data-Driven Motion Compensation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15. | 6.3 | 5 |
| 24 | Structure-Awareness SAR Imagery by Exploiting Structure Tensor TV Regularization Under Multitask Learning Framework. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15. | 6.3 | 3 |
| 25 | An Effective Clutter Suppression Approach Based on Null-Space Technique for the Space-Borne Multichannel in Azimuth High-Resolution and Wide-Swath SAR System. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-28. | 6.3 | 1 |
| 26 | Deep Learning-Based Branch-Cut Method for InSAR Two-Dimensional Phase Unwrapping. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15. | 6.3 | 25 |
| 27 | Motion Compensation/Autofocus in Airborne Synthetic Aperture Radar: A Review. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 185-206. | 9.6 | 81 |
| 28 | A Robust Image-Domain Subspace-Based Channel Error Calibration and Postimaging Reconstruction Algorithm for Multiple Azimuth Channels SAR. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18. | 6.3 | 4 |
| 29 | High-Speed Maneuvering Platform SAR Imaging With Optimal Beam Steering Control. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12. | 6.3 | 3 |
| 30 | Efficiency and Robustness Improvement of Airborne SAR Motion Compensation With High Resolution and Wide Swath. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5. | 3.1 | 13 |
| 31 | A Fine PolSAR Terrain Classification Algorithm Using the Texture Feature Fusion-Based Improved Convolutional Autoencoder. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14. | 6.3 | 10 |
| 32 | Joint Translational Motion Compensation Method for ISAR Imagery Under Low SNR Condition Using Dynamic Image Sharpness Metric Optimization. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15. | 6.3 | 8 |
| 33 | Radar Deception Jamming Recognition Based on Weighted Ensemble CNN With Transfer Learning. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11. | 6.3 | 29 |
| 34 | A Fast Cartesian Back-Projection Algorithm Based on Ground Surface Grid for GEO SAR Focusing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14. | 6.3 | 8 |
| 35 | An Efficient Image Reconstruction Algorithm for Maneuvering Platform SAR Integrated With Elevation Information in Hybrid Coordinate System. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5. | 3.1 | 0 |
| 36 | Ship Focusing and Positioning Based on 2-D Ambiguity Resolving for Single-Channel SAR Mounted on High-Speed Maneuvering Platforms With Small Aperture. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13. | 6.3 | 1 |

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| 37 | PU-GAN: A One-Step 2-D InSAR Phase Unwrapping Based on Conditional Generative Adversarial Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10. | 6.3 | 23 |
| 38 | Super-Resolution Range and Velocity Estimations for SFA-OFDM Radar. Remote Sensing, 2022, 14, 278. | 4.0 | 10 |
| 39 | SAR Target Detection Based on Improved SSD with Saliency Map and Residual Network. Remote Sensing, 2022, 14, 180. | 4.0 | 3 |
| 40 | High-Resolution and Wide-Swath Imaging Based on Multifrequency Pulse Diversity and DPCA Technique. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5. | 3.1 | 2 |
| 41 | A Low Sidelobe Deceptive Jamming Suppression Beamforming Method With a Frequency Diverse Array. IEEE Transactions on Antennas and Propagation, 2022, 70, 4884-4889. | 5.1 | 17 |
| 42 | Comparative Study of DEM Reconstruction Accuracy Between Single- and Multibaseline InSAR Phase Unwrapping. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11. | 6.3 | 8 |
| 43 | High-Resolution Real-Time Imaging Processing for Spaceborne Spotlight SAR With Curved Orbit via Subaperture Coherent Superposition in Image Domain. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 1992-2003. | 4.9 | 9 |
| 44 | Superâ€resolution forwardâ€looking imaging method for manoeuvering platform with optimised dictionary and extended sparsity adaptive matching pursuit. IET Radar, Sonar and Navigation, 2022, 16, 912-923. | 1.8 | 4 |
| 45 | Performance Improvement for SAR Tomography Based on Local Plane Model. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 2298-2310. | 4.9 | 8 |
| 46 | A Novel CFFBP Algorithm With Noninterpolation Image Merging for Bistatic Forward-Looking SAR Focusing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16. | 6.3 | 5 |
| 47 | Joint Estimation of Absolute Attitude and Size for Satellite Targets Based on Multi-Feature Fusion of Single ISAR Image. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-20. | 6.3 | 6 |
| 48 | Varying Amplitude Vibration Phase Suppression Algorithm in ISAL Imaging. Remote Sensing, 2022, 14, 1122. | 4.0 | 2 |
| 49 | Range and Doppler reconstruction for sparse frequency agile linear frequency modulationâ€orthogonal frequency division multiplexing radar. IET Radar, Sonar and Navigation, 2022, 16, 1014-1025. | 1.8 | 5 |
| 50 | CRTransSar: A Visual Transformer Based on Contextual Joint Representation Learning for SAR Ship Detection. Remote Sensing, 2022, 14, 1488. | 4.0 | 59 |
| 51 | Number of targets detection method with FCMâ€based granulationâ€“degranulation mechanism. Electronics Letters, 2022, 58, 445-447. | 1.0 | 1 |
| 52 | A Lightweight Position-Enhanced Anchor-Free Algorithm for SAR Ship Detection. Remote Sensing, 2022, 14, 1908. | 4.0 | 26 |
| 53 | Time-Domain Autofocus for Ultrahigh Resolution SAR Based on Azimuth Scaling Transformation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12. | 6.3 | 8 |
| 54 | Noise Robust High-Speed Motion Compensation for ISAR Imaging Based on Parametric Minimum Entropy Optimization. Remote Sensing, 2022, 14, 2178. | 4.0 | 4 |

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| 55 | A heterogeneous double ensemble algorithm for soybean planting area extraction in Google Earth Engine. Computers and Electronics in Agriculture, 2022, 197, 106955. | 7.7 | 6 |
| 56 | Deep Ensemble CNN Method Based on Sample Expansion for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15. | 6.3 | 8 |
| 57 | Attributed Scattering Center Extraction Method for Microwave Photonic Signals Using DSM-PMM-Regularized Optimization. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16. | 6.3 | 3 |
| 58 | Coherent Integration for Maneuvering Target Detection at Low SNR Based on Radon-General Linear Chirplet Transform. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5. | 3.1 | 4 |
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| 60 | Integration of Rotation Estimation and High-Order Compensation for Ultrahigh-Resolution Microwave Photonic ISAR Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2095-2115. | 6.3 | 25 |
| 61 | FEC: A Feature Fusion Framework for SAR Target Recognition Based on Electromagnetic Scattering Features and Deep CNN Features. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2174-2187. | 6.3 | 81 |
| 62 | Data-Driven Motion Compensation for Airborne Bistatic SAR Imagery Under Fast Factorized Back Projection Framework. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 1728-1740. | 4.9 | 11 |
| 63 | Sub-aperture phase error stitching for full aperture airborne SAL data processing method based on azimuth deramp. Optics and Laser Technology, 2021, 136, 106708. | 4.6 | 2 |
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| 65 | Ground Moving Target Indication for the Geosynchronous-Low Earth Orbit Bistatic Multichannel SAR System. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 5072-5090. | 4.9 | 12 |
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| 67 | Joint Multitarget Detection and Tracking in Multipath Environment Using Expectation Maximization Algorithm. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 10336-10347. | 4.9 | 1 |
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| 70 | A Pixel Cluster CNN and Spectral-Spatial Fusion Algorithm for Hyperspectral Image Classification With Small-Size Training Samples. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 4101-4114. | 4.9 | 25 |
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| 73 | Water Body Detection in High-Resolution SAR Images With Cascaded Fully-Convolutional Network and Variable Focal Loss. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 316-332. | 6.3 | 36 |
| 74 | Ultra-High Resolution Imaging Method for Distributed Small Satellite Spotlight MIMO-SAR Based on Sub-Aperture Image Fusion. Sensors, 2021, 21, 1609. | 3.8 | 6 |
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| 77 | Relative Total Variation Structure Analysis-Based Fusion Method for Hyperspectral and LiDAR Data Classification. Remote Sensing, 2021, 13, 1143. | 4.0 | 5 |
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| 81 | ISAR Translational Motion Compensation with Simultaneous Range Alignment and Phase Adjustment in Low SNR Environments. , 2021, , . | | 5 |
| 82 | A modified design method of pulse repetition frequency for synthetic aperture radar system based on the single point equivalent squint model. IET Radar, Sonar and Navigation, 2021, 15, 748-759. | 1.8 | 0 |
| 83 | Signal Subspace Reconstruction for DOA Detection Using Quantum-Behaved Particle Swarm Optimization. Remote Sensing, 2021, 13, 2560. | 4.0 | 4 |
| 84 | 2-D Beam Steering Method for Squinted High-Orbit SAR Imaging. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4827-4840. | 6.3 | 5 |
| 85 | Robust CFAR Ship Detector Based on Bilateral-Trimmed-Statistics of Complex Ocean Scenes in SAR Imagery: A Closed-Form Solution. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 1872-1890. | 4.7 | 49 |
| 86 | Fast Direction of Arrival Estimation for Uniform Circular Arrays With a Virtual Signal Subspace. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 1731-1741. | 4.7 | 15 |
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| 88 | CNN-LRP: Understanding Convolutional Neural Networks Performance for Target Recognition in SAR Images. Sensors, 2021, 21, 4536. | 3.8 | 15 |
| 89 | Ground Cartesian Back-Projection Algorithm for High Squint Diving TOPS SAR Imaging. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5812-5827. | 6.3 | 30 |
| 90 | Refocusing of Moving Ships in Squint SAR Images Based on Spectrum Orthogonalization. Remote Sensing, 2021, 13, 2807. | 4.0 | 7 |

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| 91 | DSDet: A Lightweight Densely Connected Sparsely Activated Detector for Ship Target Detection in High-Resolution SAR Images. Remote Sensing, 2021, 13, 2743. | 4.0 | 20 |
| 92 | High squint multichannel SAR imaging algorithm for high speed maneuvering platforms with small-aperture. Signal Processing, 2021, 185, 108078. | 3.7 | 3 |
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| 95 | High Speed Maneuvering Platform Squint TOPS SAR Imaging Based on Local Polar Coordinate and Angular Division. Remote Sensing, 2021, 13, 3329. | 4.0 | 1 |
| 96 | Semi-supervised rotation forest based on ensemble margin theory for the classification of hyperspectral image with limited training data. Information Sciences, 2021, 575, 611-638. | 6.9 | 26 |
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| 99 | SMOTE-Based Weighted Deep Rotation Forest for the Imbalanced Hyperspectral Data Classification. Remote Sensing, 2021, 13, 464. | 4.0 | 14 |
| 100 | The Recognition Framework of Deep Kernel Learning for Enclosed Remote Sensing Objects. IEEE Access, 2021, 9, 95585-95596. | 4.2 | 2 |
| 101 | Synthetic Aperture Radar Interference Based on Scene Fusion and Active Cancellation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 10375-10382. | 4.9 | 2 |
| 102 | Multi-Scale Feature Extraction and Total Variation Based Fusion Method For HSI and Lidar Data Classification. , 2021, , . | | 4 |
| 103 | Azimuth Spectrum Reconstruction Algorithm for Multichannel Squint Sar on High Speed Airborne Platform. , 2021, , . | | 1 |
| 104 | Ship Imaging based on Azimuth Ambiguity Resolving for High-Speed Maneuvering Platforms Sar with Small-Aperture. , 2021, , . | | 0 |
| 105 | Design of Double-Mode Integrated Microwave Remote Sensor for Ocean Wave Observation. , 2021, , . | | 0 |
| 106 | A Novel Forest Disater Monitoring Method Based on FCM and Neighborhood Factor Genetic Algorithm Using Multispectral Data. , 2021, , . | | 1 |
| 107 | Parallel Ensemble Deep Learning for Real-Time Remote Sensing Video Multi-Target Detection. Remote Sensing, 2021, 13, 4377. | 4.0 | 4 |
| 108 | A Novel Clutter Covariance Matrix Estimation Method Based on Feature Subspace for Space-Based Early Warning Radar. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 11217-11228. | 4.9 | 5 |

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| 110 | Ocean Target Investigation Using Spaceborne SAR under Dual-Polarization Strip-map Mode. , 2021, , . | | 3 |
| 111 | Parallel implementation of real-time ISAR imaging based on graphics processing units. , 2021, , . | | 0 |
| 112 | A Two-Step Processing Method for Diving-Mode Squint SAR Imaging With Subaperture Data. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 811-825. | 6.3 | 7 |
| 113 | Clutter Suppression via Subspace Projection for Spaceborne HRWS Multichannel SAR System. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1538-1542. | 3.1 | 9 |
| 114 | A Frequency-Domain Imaging Algorithm for Translational Variant Bistatic Forward-Looking SAR. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1502-1515. | 6.3 | 20 |
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| 117 | A Novel Image Fusion Method of Multi-Spectral and SAR Images for Land Cover Classification. Remote Sensing, 2020, 12, 3801. | 4.0 | 31 |
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| 119 | ISAR Image Matching and Three-Dimensional Scattering Imaging Based on Extracted Dominant Scatterers. Remote Sensing, 2020, 12, 2699. | 4.0 | 3 |
| 120 | Time-Varying Baseline Error Estimation and Compensation in UAV SAR Interferometry Based on Time-Domain Subaperture of Raw Radar Data. IEEE Sensors Journal, 2020, 20, 12203-12216. | 4.7 | 6 |
| 121 | An adaptive-trimming-depth based CFAR detector of heterogeneous environment in SAR imagery. Remote Sensing Letters, 2020, 11, 730-738. | 1.4 | 7 |
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| 123 | Antenna Beampattern With Range Null Control Using Weighted Frequency Diverse Array. IEEE Access, 2020, 8, 50107-50117. | 4.2 | 15 |
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| 142 | Feature Separation Based Rotation Forest for Hyperspectral Image Classification. , 2020, , . | | 0 |
| 143 | A Two-Step Ship Target Detection Method in High-Resolution Sar Image Based on Coarse-to-Fine Mechanism. , 2020, , . | | 1 |
| 144 | An Optimization Algorithm of Moving Targets Refocusing Via Parameter Estimation Dependence of Maximum Sharpness Principle After BP Integral. , 2020, , . | | 0 |

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| 145 | Long Synthetic Aperture Passive Localization Using Azimuth Chirp-Rate Contour Map. , 2020, , . | | 1 |
| 146 | Space Targets Rescaling Based on Bistatic ISAR System. , 2020, , . | | 0 |
| 147 | New Algorithm for Near-Field ISAR Imaging. , 2020, , . | | 0 |
| 148 | Two-Step Ensemble Based Class Noise Cleaning Method for Hyperspectral Image Classification. , 2020, , . | | 0 |
| 149 | An Infinity-Norm-Based Phase Unwrapping Method with TSPA Framework for Multi-Baseline SAR Interferograms. , 2020, , . | | 0 |
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