# Miaohui Wang

List of Publications by Year
in descending order

| 58 papers | 643 citations | 623734<br>14 h-index | 642732<br>23 g-index |
|---|---|---|---|
| 58 all docs | 58 docs citations | 58 times ranked | 478 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | An Efficient Frame-Content Based Intra Frame Rate Control for High Efficiency Video Coding. IEEE Signal Processing Letters, 2015, 22, 896-900. | 3.6 | 79 |
| 2 | Low-Delay Rate Control for Consistent Quality Using Distortion-Based Lagrange Multiplier. IEEE Transactions on Image Processing, 2016, 25, 2943-2955. | 9.8 | 68 |
| 3 | SAR Speckle Removal Using Hybrid Frequency Modulations. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3956-3966. | 6.3 | 52 |
| 4 | Adaptive Distortion-Based Intra-Rate Estimation for H.264/AVC Rate Control. IEEE Signal Processing Letters, 2009, 16, 145-148. | 3.6 | 31 |
| 5 | Occupancy Map Guided Fast Video-Based Dynamic Point Cloud Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 813-825. | 8.3 | 26 |
| 6 | Lagrangian Multiplier Based Joint Three-Layer Rate Control for H.264/AVC. IEEE Signal Processing Letters, 2009, 16, 679-682. | 3.6 | 25 |
| 7 | DCPR-GAN: Dental Crown Prosthesis Restoration Using Two-Stage Generative Adversarial Networks. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 151-160. | 6.3 | 25 |
| 8 | Perceptual sensitivity-based rate control method for high efficiency video coding. Multimedia Tools and Applications, 2016, 75, 10383-10396. | 3.9 | 24 |
| 9 | Efficient Computer-Aided Design of Dental Inlay Restoration: A Deep Adversarial Framework. IEEE Transactions on Medical Imaging, 2021, 40, 2415-2427. | 8.9 | 22 |
| 10 | An efficient framework for image/video inpainting. Signal Processing: Image Communication, 2013, 28, 753-762. | 3.2 | 20 |
| 11 | Comparison on Microstructure and Properties of Stainless Steel Layer Formed by Extreme High-Speed and Conventional Laser Melting Deposition. Frontiers in Materials, 2019, 6, . | 2.4 | 19 |
| 12 | Efficient H.264/AVC Video Coding with Adaptive Transforms. IEEE Transactions on Multimedia, 2014, 16, 933-946. | 7.2 | 18 |
| 13 | Background Error Propagation Model Based RDO in HEVC for Surveillance and Conference Video Coding. IEEE Access, 2018, 6, 67206-67216. | 4.2 | 17 |
| 14 | Perceptual adaptive Lagrangian multiplier for high efficiency video coding. , 2013, , . | | 16 |
| 15 | An Advanced LiDAR Point Cloud Sequence Coding Scheme for Autonomous Driving. , 2020, , . | | 15 |
| 16 | Improved block level adaptive quantization for high efficiency video coding. , 2015, , . | | 14 |
| 17 | UHD Video Coding: A Light-Weight Learning-Based Fast Super-Block Approach. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 3083-3094. | 8.3 | 14 |
| 18 | A Novel Coding Architecture for LiDAR Point Cloud Sequence. IEEE Robotics and Automation Letters, 2020, 5, 5637-5644. | 5.1 | 14 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Image super-resolution via feature-augmented random forest. Signal Processing: Image Communication, 2019, 72, 25-34. | 3.2 | 10 |
| 20 | 3D Surface Detail Enhancement from a Single Normal Map. , 2017, , . | | 9 |
| 21 | Perceptual Redundancy Estimation of Screen Images via Multi-Domain Sensitivities. IEEE Signal Processing Letters, 2021, 28, 1440-1444. | 3.6 | 9 |
| 22 | Machine Learning-Based Rate Distortion Modeling for VVC/H.266 Intra-Frame. , 2021, , . | | 9 |
| 23 | Quality Classified Image Analysis with Application to Face Detection and Recognition. , 2018, , . | | 8 |
| 24 | Surface Reconstruction From Normals: A Robust DGP-Based Discontinuity Preservation Approach. , 2019, , . | | 8 |
| 25 | Optimal bit allocation in HEVC for real-time video communications. , 2015, , . | | 7 |
| 26 | An efficient low-complexity block partition scheme for VVC intra coding. Journal of Real-Time Image Processing, 2022, 19, 161-172. | 3.5 | 7 |
| 27 | A Lightweight Quality Assessment of Screen Content Images using Directional Derivative Filters. , 2018, , . | | 6 |
| 28 | Joint Optimization of Transform and Quantization for High Efficiency Video Coding. IEEE Access, 2019, 7, 62534-62544. | 4.2 | 6 |
| 29 | Industrial Applications of Ultrahigh Definition Video Coding With an Optimized Supersample Adaptive Offset Framework. IEEE Transactions on Industrial Informatics, 2020, 16, 7613-7623. | 11.3 | 6 |
| 30 | Pyramid model based Down-sampling for image inpainting. , 2010, , . | | 5 |
| 31 | Rate Constrained Multiple-QP Optimization for HEVC. IEEE Transactions on Multimedia, 2020, 22, 1395-1406. | 7.2 | 5 |
| 32 | An automatic camera calibration method based on checkerboard. Traitement Du Signal, 2017, 34, 209-226. | 1.3 | 5 |
| 33 | Perceptually Quasi-Lossless Compression of Screen Content Data Via Visibility Modeling and Deep Forecasting. IEEE Transactions on Industrial Informatics, 2022, 18, 6865-6875. | 11.3 | 5 |
| 34 | An efficient content adaptive transform for video coding. , 2013, , . | | 4 |
| 35 | Quality Measurement of Screen Images via Foreground Perception and Background Suppression. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11. | 4.7 | 4 |
| 36 | A Novel Edge-pattern-based Just Noticeable Difference Model for Screen Content Images. , 2020, , . | | 4 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 37 | An Efficient Quality Assessment Method for Screen Content Image Based on Gabor. , 2020, , . | | 4 |
| 38 | Efficient Geometry Surface Coding in V-PCC. IEEE Transactions on Multimedia, 2023, 25, 3329-3342. | 7.2 | 4 |
| 39 | Automatic surface inspection for S-PVC using a composite vision-based method. Applied Optics, 2020, 59, 1008. | 1.8 | 3 |
| 40 | Video content dependent directional transform for intra frame coding. , 2012, , . | | 2 |
| 41 | Video compression: A jointly optimized transform-quantization method. , 2017, , . | | 2 |
| 42 | Fine-Grained Region Adaptive Loop Filter for Super-Block Video Coding. IEEE Access, 2020, 8, 445-454. | 4.2 | 2 |
| 43 | SCIFI: 3D face reconstruction via smartphone screen lighting. Optics Express, 2021, 29, 43938. | 3.4 | 2 |
| 44 | Low-Light Images In-the-Wild: A Novel Visibility Perception-Guided Blind Quality Indicator. IEEE Transactions on Industrial Informatics, 2023, 19, 6026-6036. | 11.3 | 2 |
| 45 | A rate distortion optimized transform for motion compensation residual. , 2013, , . | | 1 |
| 46 | Dilated Deep Residual Network for Post-processing in TPG Based Image Coding. Lecture Notes in Computer Science, 2018, , 293-297. | 1.3 | 1 |
| 47 | MSMC-Net: Image Inpainting using Deep Multi-scale and Multi-connection Networks. , 2019, , . | | 1 |
| 48 | Periodic Enhanced Frame Based Long-Short-Term Reference in HEVC for Conference and Surveillance Video Coding. IEEE Access, 2019, 7, 46422-46433. | 4.2 | 1 |
| 49 | Background Error Propagation Model Based RDO for Coding Surveillance and Conference Videos. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 504-513. | 0.3 | 1 |
| 50 | Surface Reconstruction with Unconnected Normal Maps: An Efficient Mesh-based Approach. , 2020, , . | | 1 |
| 51 | A novel intra-frame rate control algorithm for H.264/AVC. , 2008, , . | | 0 |
| 52 | Spatial-temporal decorrelation for image/video coding. , 2012, , . | | 0 |
| 53 | Multi-color recognition based on neighborhood contrast. , 2017, , . | | 0 |
| 54 | Deep Human Pose Estimation via Self-guided Learning. Lecture Notes in Computer Science, 2021, , 265-274. | 1.3 | 0 |

| #  | Article | IF | Citations |
|----|---------|----|-----------|
| 55 | Initial-QP Prediction for Versatile Video Coding: A Multi-domain Feature-Driven Learning Approach. Lecture Notes in Computer Science, 2021, , 665-675. | 1.3 | 0 |
| 56 | 3D Surface Detail Enhancement. , 2020, , . | | 0 |
| 57 | Orbital Table Tennis Serving System: A Face Detection-driven Approach. , 2021, , . | | 0 |
| 58 | Residual Geometric Feature Transform Network for 3D Surface Super-Resolution. , 2021, , . | | 0 |