# Jiying Zhao

## List of Publications by Year
## in descending order

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|---|---|---|---|
| 101<br>papers | 1,722<br>citations | 516710<br>16<br>h-index | 434195<br>31<br>g-index |
| 101<br>all docs | 101<br>docs citations | 101<br>times ranked | 1237<br>citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Objective Assessment of Multiresolution Image Fusion Algorithms for Context Enhancement in Night Vision: A Comparative Study. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 94-109. | 13.9 | 546 |
| 2 | A survey of RST invariant image watermarking algorithms. ACM Computing Surveys, 2007, 39, 5. | 23.0 | 138 |
| 3 | RST-invariant digital image watermarking based on log-polar mapping and phase correlation. IEEE Transactions on Circuits and Systems for Video Technology, 2003, 13, 753-765. | 8.3 | 134 |
| 4 | A new video watermarking algorithm based on 1D DFT and Radon transform. Signal Processing, 2010, 90, 626-639. | 3.7 | 82 |
| 5 | RST Invariant Image Watermarking Algorithm With Mathematical Modeling and Analysis of the Watermarking Processes. IEEE Transactions on Image Processing, 2009, 18, 1055-1068. | 9.8 | 76 |
| 6 | Tampering Detection in Compressed Digital Video Using Watermarking. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 1057-1072. | 4.7 | 67 |
| 7 | An Image Quality Evaluation Method Based on Digital Watermarking. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 98-105. | 8.3 | 61 |
| 8 | Robot manipulator calibration using neural network and a camera-based measurement system. Transactions of the Institute of Measurement and Control, 2012, 34, 105-121. | 1.7 | 56 |
| 9 | Adaptive Watermarking and Tree Structure Based Image Quality Estimation. IEEE Transactions on Multimedia, 2014, 16, 311-325. | 7.2 | 43 |
| 10 | Robust Multi-Frame Super-Resolution Based on Spatially Weighted Half-Quadratic Estimation and Adaptive BTV Regularization. IEEE Transactions on Image Processing, 2018, 27, 4971-4986. | 9.8 | 38 |
| 11 | Contourlet-based image and video watermarking robust to geometric attacks and compressions. Multimedia Tools and Applications, 2018, 77, 7187-7204. | 3.9 | 28 |
| 12 | Prediction-Based Haptic Data Reduction and Transmission in Telementoring Systems. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 1727-1736. | 4.7 | 24 |
| 13 | Robust perception-based data reduction and transmission in telehaptic systems. , 2009, , . | | 23 |
| 14 | An image rectification scheme and its applications in RST invariant digital image watermarking. Multimedia Tools and Applications, 2007, 34, 57-84. | 3.9 | 20 |
| 15 | Speech Quality Evaluation: A New Application of Digital Watermarking. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 45-55. | 4.7 | 18 |
| 16 | Human Perception-Based Data Reduction for Haptic Communication in Six-DoF Telepresence Systems. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 3534-3546. | 4.7 | 18 |
| 17 | Robust contourlet-based blind watermarking for depth-image-based rendering 3D images. Signal Processing: Image Communication, 2017, 54, 56-65. | 3.2 | 18 |
| 18 | End-To-End Trainable Video Super-Resolution Based on a New Mechanism for Implicit Motion Estimation and Compensation. , 2020, , . | | 16 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
| 19 | Real-time video watermarking on programmable graphics hardware. , 0, , . | | 15 |
| 20 | No-reference perceptual quality assessment of stereoscopic images based on binocular visual characteristics. Signal Processing: Image Communication, 2019, 76, 1-10. | 3.2 | 15 |
| 21 | A Survey of RST Invariant Image Watermarking Algorithms. , 2006, , . | | 14 |
| 22 | Flaw in SVD-based Watermarking. , 2006, , . | | 13 |
| 23 | A dynamic fuzzy logic approach to adaptive HVS-based watermarking. , 0, , . | | 12 |
| 24 | Learning for Unconstrained Space-Time Video Super-Resolution. IEEE Transactions on Broadcasting, 2022, 68, 345-358. | 3.2 | 12 |
| 25 | Image quality measurement by using digital watermarking. , 0, , . | | 11 |
| 26 | A novel semi-fragile audio watermarking scheme. , 0, , . | | 10 |
| 27 | Image Fusion Algorithm Assessment Based on Feature Measurement. , 0, , . | | 10 |
| 28 | A Rotation Invariant Feature and Image Normalization Based Image Watermarking Algorithm. , 2007, , . | | 10 |
| 29 | Robust contourlet-based watermarking for depth-image-based rendering 3D images. , 2016, , . | | 10 |
| 30 | Adaptive digital watermarking using RDWT and SVD. , 2015, , . | | 9 |
| 31 | Robust Image Chroma-Keying: A Quadmap Approach Based on Global Sampling and Local Affinity. IEEE Transactions on Broadcasting, 2015, 61, 356-366. | 3.2 | 9 |
| 32 | RST invariant digital image watermarking: importance of phase information. , 0, , . | | 8 |
| 33 | Hiding depth information in compressed 2D image/video using reversible watermarking. Multimedia Tools and Applications, 2016, 75, 4285-4303. | 3.9 | 8 |
| 34 | RST invariant digital image watermarking based on a new phase-only filtering method. Signal Processing, 2005, 85, 2354-2370. | 3.7 | 7 |
| 35 | Robust image watermarking with Zernike moments. , 0, , . | | 7 |
| 36 | On Generalized Survey Propagation: Normal Realization and Sum-Product Interpretation. , 2006, , . | | 7 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 37 | Multimodal Visionâ€"Haptic Perception of Digital Watermarks Embedded in 3-D Meshes. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 1047-1055. | 4.7 | 7 |
| 38 | Quality assessment of stereoscopic 3D images based on local and global visual characteristics. , 2017, , . | | 7 |
| 39 | Digital watermarking by using a feature-based multiwavelet fusion approach. , 0, , . | | 6 |
| 40 | Compressed-domain temporal adaptation-resilient watermarking for H.264 video authentication. , 2009, , . | | 6 |
| 41 | A realtime spatio-temporal watermarking scheme for H.264/AVC. , 2013, , . | | 6 |
| 42 | A new filtering method for RST invariant image watermarking. , 0, , . | | 5 |
| 43 | Hard Authentication of H.264 Video Applying MPEG-21 Generic Bitstream Syntax Description (gBSD). , 2007, , . | | 5 |
| 44 | An Adaptive Watermarking Algorithm for MP3 Compressed Audio Signals. , 2008, , . | | 5 |
| 45 | An adaptive and secure audio watermarking algorithm robust to MP3 compression. , 2009, , . | | 5 |
| 46 | An improved watermarking technique for multi-user, multi-right environments. Multimedia Tools and Applications, 2009, 42, 161-181. | 3.9 | 5 |
| 47 | Exploring human perception-based data reduction for haptic communication in 6-DOF telepresence systems. , 2010, , . | | 5 |
| 48 | Watermarking Based Quality Assessment for DIBR 3D Images. , 2016, , . | | 5 |
| 49 | Speech Quality Evaluation: A New Application of Digital Watermarking. , 0, , . | | 4 |
| 50 | Perceptual quality assessment of stereoscopic images based on local and global visual characteristics. Multimedia Tools and Applications, 2019, 78, 12139-12156. | 3.9 | 4 |
| 51 | Apply phase information in RST image watermarking. , 0, , . | | 3 |
| 52 | Evaluation of speech quality using digital watermarking. IEICE Electronics Express, 2004, 1, 380-385. | 0.8 | 3 |
| 53 | Adaptive image watermarking based on a dynamic fuzzy inference system. , 0, , . | | 3 |
| 54 | Towards an intelligent tele-surveillance system for public transport areas: Fuzzy logic based camera control. Canadian Conference on Electrical and Computer Engineering, 2008, , . | 0.0 | 3 |

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|---|---------|-----|-----------|
| 55 | Robust multi-frame super-resolution with adaptive norm choice and difference curvature based BTV regularization. , 2017, , . | | 3 |
| 56 | Video Super-Resolution via Dynamic Local Filter Network. , 2018, , . | | 3 |
| 57 | RST invariant video watermarking based on 1D DFT and Radon transform. , 2008, , . | | 3 |
| 58 | Rotation,scaling,translation invariant image watermarking based on radon transform. , 0, , . | | 2 |
| 59 | A robust RST invariant image watermarking method based on locally detected features. , 0, , . | | 2 |
| 60 | A Robust Image Watermarking Method Based on Adaptive Feature Points Detection. , 2006, , . | | 2 |
| 61 | HVS Based Adaptive Digital Image Watermarking. , 2006, , . | | 2 |
| 62 | Real-time automatic chroma-key matting using perceptual analysis and prediction. , 2014, , . | | 2 |
| 63 | Video chroma keying via global sampling and trimap propagation. Multimedia Systems, 2016, 22, 693-707. | 4.7 | 2 |
| 64 | Quality evaluation of DIBR 3D images based on blind watermarking. Multimedia Systems, 2019, 25, 195-211. | 4.7 | 2 |
| 65 | A robust blind watermarking algorithm for depth-image-based rendering 3D images. Signal Processing: Image Communication, 2020, 87, 115935. | 3.2 | 2 |
| 66 | A rectification method for RST invariant digital image watermarking. , 0, , . | | 1 |
| 67 | RST invariant digital image watermarking based on resynchronization. , 0, , . | | 1 |
| 68 | RST invariant digital image watermarking based on a new phase-only filtering method. , 0, , . | | 1 |
| 69 | An accurate method for image quality evaluation using digital watermarking. IEICE Electronics Express, 2005, 2, 523-529. | 0.8 | 1 |
| 70 | Towards a Unified Solution for Constraint-Satisfaction Problems: A Survey-Propagation Approach Based on Normal Realizations. , 0, , . | | 1 |
| 71 | Copyright Protection of Web Applications through Watermarking. , 0, , . | | 1 |
| 72 | Compressed Domain Authentication of Live Video. , 2007, , . | | 1 |

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|---|---------|-----|-----------|
| 73 | On the Interpretation of Survey Propagation. , 2007, , . | | 1 |
| 74 | Network traffic reduction in six degree-of-freedom haptic, telementoring systems. , 2009, , . | | 1 |
| 75 | Perceptibility of digital watermarks embedded in 3D meshes using unimodal and bimodal hapto-visual interaction. , 2009, , . | | 1 |
| 76 | Content-adaptive musical audio watermarking based on the music theory of chords. , 2009, , . | | 1 |
| 77 | RST invariant video watermarking based on log-polar mapping and phase-only filtering. , 2010, , . | | 1 |
| 78 | Color range determination and alpha matting for color images. , 2013, , . | | 1 |
| 79 | Adaptive contourlet-based image watermarking robust to geometric transformations and image compression. , 2016, , . | | 1 |
| 80 | A joint dictionary-based method for single image super-resolution. , 2016, , . | | 1 |
| 81 | No-Reference Stereoscopic Image Quality Assessment Based on Binocular Statistical Features and Machine Learning. Complexity, 2021, 2021, 1-14. | 1.6 | 1 |
| 82 | Multi-Kernel Deformable 3D Convolution for Video Super-Resolution. , 2021, , . | | 1 |
| 83 | Speech quality assessment using digital watermarking. , 0, , . | | 0 |
| 84 | Copyright protection of J2EE web applications through watermarking. , 0, , . | | 0 |
| 85 | Is SP BP?. , 2007, , . | | 0 |
| 86 | Regulating voice traffic rate in mobile wireless ad hoc networks. , 2009, , . | | 0 |
| 87 | Is SP BP?. IEEE Transactions on Information Theory, 2010, 56, 2999-3032. | 2.4 | 0 |
| 88 | A key-code watermarking algorithm for video content protection. , 2010, , . | | 0 |
| 89 | Wideband audio over narrowband based on digital watermarking. , 2010, , . | | 0 |
| 90 | Error analysis for an RST invariant image watermarking algorithm. , 2010, , . | | 0 |

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|---|---------|----|-----------|
| 91 | Digital watermarking and tree structure based image quality estimation. , 2011, , . | | 0 |
| 92 | Chroma-Keying Based on Global Weighted Sampling and Laplacian Propagation. , 2014, , . | | 0 |
| 93 | Stereoscopic chroma key matting using statistical analysis in CIECAM02 color space. , 2015, , . | | 0 |
| 94 | Hybrid key: An automatic tool for real-time high quality chroma keying. , 2015, , . | | 0 |
| 95 | Stereo Matching Based on Edge-Aware T-MST. , 2016, , . | | 0 |
| 96 | A novel perception oriented image color representation. , 2016, , . | | 0 |
| 97 | Chroma keying based on stereo images. , 2017, , . | | 0 |
| 98 | Video Super-Resolution with Compensation in Feature Extraction. , 2019, , . | | 0 |
| 99 | Image Alpha Matting via Residual Convolutional Grid Network. , 2019, , . | | 0 |
| 100 | Photograph enhancement via imitation-to-innovation training scheme. , 2021, , . | | 0 |
| 101 | Multimedia Authentication. , 2008, , 492-497. | | 0 |