

Wangmeng Zuo

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

16,171
citations

70961

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65
g-index

93
all docs

93
docs citations

93
times ranked

9750
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Beyond a Gaussian Denoiser: Residual Learning of Deep CNN for Image Denoising. IEEE Transactions on Image Processing, 2017, 26, 3142-3155. | 6.0 | 4,738 |
| 2 | FFDNet: Toward a Fast and Flexible Solution for CNN-Based Image Denoising. IEEE Transactions on Image Processing, 2018, 27, 4608-4622. | 6.0 | 1,554 |
| 3 | Weighted Nuclear Norm Minimization with Application to Image Denoising. , 2014, , . | | 1,240 |
| 4 | Learning a Single Convolutional Super-Resolution Network for Multiple Degradations. , 2018, , . | | 618 |
| 5 | Weighted Nuclear Norm Minimization and Its Applications to Low Level Vision. International Journal of Computer Vision, 2017, 121, 183-208. | 10.9 | 566 |
| 6 | Deep learning on image denoising: An overview. Neural Networks, 2020, 131, 251-275. | 3.3 | 502 |
| 7 | Progressive Image Deraining Networks: A Better and Simpler Baseline. , 2019, , . | | 470 |
| 8 | AttGAN: Facial Attribute Editing by Only Changing What You Want. IEEE Transactions on Image Processing, 2019, 28, 5464-5478. | 6.0 | 432 |
| 9 | Bit-Scalable Deep Hashing With Regularized Similarity Learning for Image Retrieval and Person Re-Identification. IEEE Transactions on Image Processing, 2015, 24, 4766-4779. | 6.0 | 422 |
| 10 | Attention-guided CNN for image denoising. Neural Networks, 2020, 124, 117-129. | 3.3 | 384 |
| 11 | Image denoising using deep CNN with batch renormalization. Neural Networks, 2020, 121, 461-473. | 3.3 | 314 |
| 12 | Weighted Schatten $\ \cdot \ _{p,q}$ -Norm Minimization for Image Denoising and Background Subtraction. IEEE Transactions on Image Processing, 2016, 25, 4842-4857. | 6.0 | 297 |
| 13 | Joint Learning of Single-Image and Cross-Image Representations for Person Re-identification. , 2016, , . | | 260 |
| 14 | Unsupervised feature selection by regularized self-representation. Pattern Recognition, 2015, 48, 438-446. | 5.1 | 247 |
| 15 | Palmpoint verification using binary orientation co-occurrence vector. Pattern Recognition Letters, 2009, 30, 1219-1227. | 2.6 | 235 |
| 16 | A Generalized Iterated Shrinkage Algorithm for Non-convex Sparse Coding. , 2013, , . | | 233 |
| 17 | LSDT: Latent Sparse Domain Transfer Learning for Visual Adaptation. IEEE Transactions on Image Processing, 2016, 25, 1177-1191. | 6.0 | 221 |
| 18 | A Comparative Study of Palmpoint Recognition Algorithms. ACM Computing Surveys, 2012, 44, 1-37. | 16.1 | 192 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Image Deblurring via Enhanced Low-Rank Prior. IEEE Transactions on Image Processing, 2016, 25, 3426-3437. | 6.0 | 165 |
| 20 | Neural Blind Deconvolution Using Deep Priors. , 2020, , . | | 142 |
| 21 | Multi-Level Wavelet Convolutional Neural Networks. IEEE Access, 2019, 7, 74973-74985. | 2.6 | 139 |
| 22 | Coarse-to-Fine CNN for Image Super-Resolution. IEEE Transactions on Multimedia, 2021, 23, 1489-1502. | 5.2 | 122 |
| 23 | Palmprint Recognition Based on Complete Direction Representation. IEEE Transactions on Image Processing, 2017, 26, 4483-4498. | 6.0 | 115 |
| 24 | Online joint palmprint and palmvein verification. Expert Systems With Applications, 2011, 38, 2621-2631. | 4.4 | 111 |
| 25 | Gradient Histogram Estimation and Preservation for Texture Enhanced Image Denoising. IEEE Transactions on Image Processing, 2014, 23, 2459-2472. | 6.0 | 99 |
| 26 | Lightweight image super-resolution with enhanced CNN. Knowledge-Based Systems, 2020, 205, 106235. | 4.0 | 99 |
| 27 | Bidirectional PCA with assembled matrix distance metric for image recognition. IEEE Transactions on Systems, Man, and Cybernetics, 2006, 36, 863-872. | 5.5 | 98 |
| 28 | A Generalized Accelerated Proximal Gradient Approach for Total-Variation-Based Image Restoration. IEEE Transactions on Image Processing, 2011, 20, 2748-2759. | 6.0 | 95 |
| 29 | Image Restoration: From Sparse and Low-Rank Priors to Deep Priors [Lecture Notes]. IEEE Signal Processing Magazine, 2017, 34, 172-179. | 4.6 | 92 |
| 30 | Supervised sparse representation method with a heuristic strategy and face recognition experiments. Neurocomputing, 2012, 79, 125-131. | 3.5 | 86 |
| 31 | A Deep Structured Model with Radius- ϵ Margin Bound for 3D Human Activity Recognition. International Journal of Computer Vision, 2016, 118, 256-273. | 10.9 | 85 |
| 32 | Manifold Criterion Guided Transfer Learning via Intermediate Domain Generation. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 3759-3773. | 7.2 | 82 |
| 33 | Designing and training of a dual CNN for image denoising. Knowledge-Based Systems, 2021, 226, 106949. | 4.0 | 82 |
| 34 | Learning Iteration-wise Generalized Shrinkage-Thresholding Operators for Blind Deconvolution. IEEE Transactions on Image Processing, 2016, 25, 1-1. | 6.0 | 81 |
| 35 | On kernel difference-weighted k-nearest neighbor classification. Pattern Analysis and Applications, 2008, 11, 247-257. | 3.1 | 79 |
| 36 | F-SVM: Combination of Feature Transformation and SVM Learning via Convex Relaxation. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5185-5199. | 7.2 | 79 |

| # | ARTICLE | IF | CITATIONS |
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| 37 | Orientation selection using modified FCM for competitive code-based palmprint recognition. Pattern Recognition, 2009, 42, 2841-2849. | 5.1 | 75 |
| 38 | Texture Enhanced Image Denoising via Gradient Histogram Preservation. , 2013, , . | | 74 |
| 39 | Blind Face Restoration via Deep Multi-scale Component Dictionaries. Lecture Notes in Computer Science, 2020, , 399-415. | 1.0 | 74 |
| 40 | The multiscale competitive code via sparse representation for palmprint verification. , 2010, , . | | 69 |
| 41 | Class-Specific Reconstruction Transfer Learning for Visual Recognition Across Domains. IEEE Transactions on Image Processing, 2020, 29, 2424-2438. | 6.0 | 68 |
| 42 | Learning Warped Guidance for Blind Face Restoration. Lecture Notes in Computer Science, 2018, , 278-296. | 1.0 | 68 |
| 43 | 3D Human Activity Recognition with Reconfigurable Convolutional Neural Networks. , 2014, , . | | 67 |
| 44 | Single Image Deraining Using Bilateral Recurrent Network. IEEE Transactions on Image Processing, 2020, 29, 6852-6863. | 6.0 | 65 |
| 45 | Asymmetric CNN for Image Superresolution. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3718-3730. | 5.9 | 56 |
| 46 | Simultaneous Fidelity and Regularization Learning for Image Restoration. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 284-299. | 9.7 | 54 |
| 47 | An assembled matrix distance metric for 2DPCA-based image recognition. Pattern Recognition Letters, 2006, 27, 210-216. | 2.6 | 49 |
| 48 | Image to Video Person Re-Identification by Learning Heterogeneous Dictionary Pair With Feature Projection Matrix. IEEE Transactions on Information Forensics and Security, 2018, 13, 717-732. | 4.5 | 49 |
| 49 | Scene Text Deblurring Using Text-Specific Multiscale Dictionaries. IEEE Transactions on Image Processing, 2015, 24, 1302-1314. | 6.0 | 43 |
| 50 | Image super-resolution with an enhanced group convolutional neural network. Neural Networks, 2022, 153, 373-385. | 3.3 | 43 |
| 51 | An Approach to Streaming Video Segmentation With Sub-Optimal Low-Rank Decomposition. IEEE Transactions on Image Processing, 2016, 25, 1947-1960. | 6.0 | 42 |
| 52 | Efficient and Effective Context-Based Convolutional Entropy Modeling for Image Compression. IEEE Transactions on Image Processing, 2020, 29, 5900-5911. | 6.0 | 37 |
| 53 | Computational Intelligence-Based Biometric Technologies. IEEE Computational Intelligence Magazine, 2007, 2, 26-36. | 3.4 | 35 |
| 54 | Fast total-variation based image restoration based on derivative alternated direction optimization methods. Neurocomputing, 2015, 170, 201-212. | 3.5 | 34 |

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|----|--|-----|-----------|
| 55 | Non-convex regularized self-representation for unsupervised feature selection. Image and Vision Computing, 2017, 60, 22-29. | 2.7 | 32 |
| 56 | Empirical study of light source selection for palmprint recognition. Pattern Recognition Letters, 2011, 32, 120-126. | 2.6 | 31 |
| 57 | Iterative quality enhancement via residual-artifact learning networks for low-dose CT. Physics in Medicine and Biology, 2018, 63, 215004. | 1.6 | 31 |
| 58 | Multiscale competitive code for efficient palmprint recognition. , 2008, , . | | 29 |
| 59 | Classification of Pulse Waveforms Using Edit Distance with Real Penalty. Eurasip Journal on Advances in Signal Processing, 2010, 2010, . | 1.0 | 29 |
| 60 | Towards effective codebookless model for image classification. Pattern Recognition, 2016, 59, 63-71. | 5.1 | 26 |
| 61 | On accurate orientation extraction and appropriate distance measure for low-resolution palmprint recognition. Pattern Recognition, 2011, 44, 964-972. | 5.1 | 24 |
| 62 | Partial Deconvolution With Inaccurate Blur Kernel. IEEE Transactions on Image Processing, 2018, 27, 511-524. | 6.0 | 23 |
| 63 | Non-convex Regularized Self-representation for Unsupervised Feature Selection. Lecture Notes in Computer Science, 2015, , 55-65. | 1.0 | 23 |
| 64 | Fast palmprint identification with multiple templates per subject. Pattern Recognition Letters, 2011, 32, 1108-1118. | 2.6 | 21 |
| 65 | Fast gradient vector flow computation based on augmented Lagrangian method. Pattern Recognition Letters, 2013, 34, 219-225. | 2.6 | 20 |
| 66 | Learning RAW-to-sRGB Mappings with Inaccurately Aligned Supervision. , 2021, , . | | 19 |
| 67 | Learned Dynamic Guidance for Depth Image Reconstruction. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 2437-2452. | 9.7 | 12 |
| 68 | Bayesian non-parametric gradient histogram estimation for texture-enhanced image deblurring. Neurocomputing, 2016, 197, 95-112. | 3.5 | 10 |
| 69 | Computational Pulse Signal Analysis. , 2018, , . | | 10 |
| 70 | Convolutional Neural Networks for Image Denoising and Restoration. Advances in Computer Vision and Pattern Recognition, 2018, , 93-123. | 0.9 | 10 |
| 71 | Unsupervised image-to-image translation using intra-domain reconstruction loss. International Journal of Machine Learning and Cybernetics, 2020, 11, 2077-2088. | 2.3 | 6 |
| 72 | IIT-GAT: Instance-level image transformation via unsupervised generative attention networks with disentangled representations. Knowledge-Based Systems, 2021, 225, 107122. | 4.0 | 6 |

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|----|--|-----|-----------|
| 73 | Gaussian ERP Kernel Classifier for Pulse Waveforms Classification. , 2010, , . | | 5 |
| 74 | An additive convolution model for fast restoration of nonuniform blurred images. International Journal of Computer Mathematics, 2014, 91, 2446-2466. | 1.0 | 5 |
| 75 | Pulse Waveform Classification Using ERP-Based Difference-Weighted KNN Classifier. Lecture Notes in Computer Science, 2010, , 191-200. | 1.0 | 4 |
| 76 | A Coordinate Descent Method for Total Variation Minimization. Mathematical Problems in Engineering, 2017, 2017, 1-13. | 0.6 | 3 |
| 77 | Deep vanishing component analysis network for pattern classification. Neurocomputing, 2018, 316, 240-250. | 3.5 | 2 |
| 78 | Image denoising using hyper-Laplacian priors and gradient histogram preservation model. , 2014, , . | | 1 |
| 79 | Sparse Representation-Based Methods for Face Recognition. , 2016, , 199-214. | | 1 |
| 80 | Efficient non-uniform deblurring based on generalized additive convolution model. Eurasip Journal on Advances in Signal Processing, 2016, 2016, . | 1.0 | 1 |
| 81 | Fusion Methodologies of Multiple Traits. , 2016, , 217-247. | | 1 |
| 82 | An Algorithm Based on Augmented Lagrangian Method for Generalized Gradient Vector Flow Computation. Communications in Computer and Information Science, 2012, , 170-177. | 0.4 | 0 |
| 83 | Fast Restoration of Nonuniform Blurred Images. Lecture Notes in Computer Science, 2013, , 597-604. | 1.0 | 0 |
| 84 | Discussions and Future Work. , 2016, , 251-261. | | 0 |
| 85 | Discriminative Features for Palmprint Authentication. , 2016, , 81-111. | | 0 |
| 86 | Discussion and Future Work. , 2018, , 319-323. | | 0 |
| 87 | Edit Distance for Pulse Diagnosis. , 2018, , 217-230. | | 0 |
| 88 | Person Verification. , 2020, , 99-114. | | 0 |
| 89 | Human Activity Understanding. , 2020, , 135-156. | | 0 |
| 90 | Palmprint Recognition. , 2021, , 1-7. | | 0 |