Jian-Jiun Ding

List of Publications by Year in descending order

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430874 345221 2,181 165 18 36 citations g-index h-index papers 166 166 166 1524 times ranked docs citations citing authors all docs

#	Article	IF	CITATIONS
1	Relations between fractional operations and time-frequency distributions, and their applications. IEEE Transactions on Signal Processing, 2001, 49, 1638-1655.	5.3	236
2	Bearing Fault Diagnosis Based on Multiscale Permutation Entropy and Support Vector Machine. Entropy, 2012, 14, 1343-1356.	2.2	231
3	Efficient implementation of quaternion Fourier transform, convolution, and correlation by 2-D complex FFT. IEEE Transactions on Signal Processing, 2001, 49, 2783-2797.	5. 3	192
4	Eigenfunctions of linear canonical transform. IEEE Transactions on Signal Processing, 2002, 50, 11-26.	5. 3	142
5	Facial age estimation based on label-sensitive learning and age-oriented regression. Pattern Recognition, 2013, 46, 628-641.	8.1	126
6	Relations Between Gabor Transforms and Fractional Fourier Transforms and Their Applications for Signal Processing. IEEE Transactions on Signal Processing, 2007, 55, 4839-4850.	5. 3	103
7	Facial expression recognition based on improved local binary pattern and class-regularized locality preserving projection. Signal Processing, 2015, 117, 1-10.	3.7	86
8	Commutative Reduced Biquaternions and Their Fourier Transform for Signal and Image Processing Applications. IEEE Transactions on Signal Processing, 2004, 52, 2012-2031.	5. 3	78
9	Fractional Fourier Transform, Wigner Distribution, and Filter Design for Stationary and Nonstationary Random Processes. IEEE Transactions on Signal Processing, 2010, 58, 4079-4092.	5.3	67
10	PMS-Net: Robust Haze Removal Based on Patch Map for Single Images. , 2019, , .		63
11	Fractional cosine, sine, and Hartley transforms. IEEE Transactions on Signal Processing, 2002, 50, 1661-1680.	5 . 3	62
12	PMHLD: Patch Map-Based Hybrid Learning DehazeNet for Single Image Haze Removal. IEEE Transactions on Image Processing, 2020, 29, 6773-6788.	9.8	60
13	ALL Snow Removed: Single Image Desnowing Algorithm Using Hierarchical Dual-tree Complex Wavelet Representation and Contradict Channel Loss. , 2021, , .		52
14	JSTASR: Joint Size and Transparency-Aware Snow Removal Algorithm Based on Modified Partial Convolution and Veiling Effect Removal. Lecture Notes in Computer Science, 2020, , 754-770.	1.3	48
15	Eigenfunctions of Fourier and Fractional Fourier Transforms With Complex Offsets and Parameters. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 1599-1611.	0.1	42
16	Eigenvalues and Singular Value Decompositions of Reduced Biquaternion Matrices. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 2673-2685.	5.4	33
17	Generalized Commuting Matrices and Their Eigenvectors for DFTs, Offset DFTs, and Other Periodic Operations. IEEE Transactions on Signal Processing, 2008, 56, 3891-3904.	5.3	28
18	Adaptive Golomb Code for Joint Geometrically Distributed Data and Its Application in Image Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 661-670.	8.3	25

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19	Reweighting of the sensory inputs for postural control in patients with cervical spondylotic myelopathy after surgery. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 96.	4.6	25
20	Real time accelerometer-based gait recognition using adaptive windowed wavelet transforms. , 2012, , .		24
21	Improved implementation algorithms of the two-dimensional nonseparable linear canonical transform. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 1615.	1.5	19
22	Generalized Eigenvectors and Fractionalization of Offset DFTs and DCTs. IEEE Transactions on Signal Processing, 2004, 52, 2032-2046.	5. 3	18
23	Improved reversible integer-to-integer color transforms. , 2009, , .		18
24	Closed-Form Orthogonal DFT Eigenvectors Generated by Complete Generalized Legendre Sequence. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 3469-3479.	5.4	17
25	Closed-Form Orthogonal Number Theoretic Transform Eigenvectors and the Fast Fractional NTT. IEEE Transactions on Signal Processing, 2011, 59, 2124-2135.	5.3	17
26	Quaternion matrix singular value decomposition and its applications for color image processing. , 0, , .		16
27	Improved Efficiency on Adaptive Arithmetic Coding for Data Compression Using Range-Adjusting Scheme, Increasingly Adjusting Step, and Mutual-Learning Scheme. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 3412-3423.	8.3	16
28	Accurate Road Detection from Satellite Images Using Modified U-net., 2018,,.		15
29	DFT-Commuting Matrix With Arbitrary or Infinite Order Second Derivative Approximation. IEEE Transactions on Signal Processing, 2009, 57, 390-394.	5.3	14
30	A Telesurveillance System With Automatic Electrocardiogram Interpretation Based on Support Vector Machine and Rule-Based Processing. JMIR Medical Informatics, 2015, 3, e21.	2.6	14
31	Color Images Enhancement using Weighted Histogram Separation. , 2006, , .		13
32	Two-Dimensional Orthogonal DCT Expansion in Trapezoid and Triangular Blocks and Modified JPEG Image Compression. IEEE Transactions on Image Processing, 2013, 22, 3664-3675.	9.8	11
33	Improved Harris' Algorithm for Corner and Edge Detections. , 2007, , .		10
34	Color pattern recognition by quaternion correlation. , 0, , .		9
35	Facial age estimation based on label-sensitive learning and age-specific local regression. , 2012, , .		9
36	DesmokeNet: A Two-Stage Smoke Removal Pipeline Based on Self-Attentive Feature Consensus and Multi-Level Contrastive Regularization. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 3346-3359.	8.3	9

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37	Frontalization and adaptive exponential ensemble rule for deep-learning-based facial expression recognition system. Signal Processing: Image Communication, 2021, 96, 116321.	3.2	8
38	Conjugate Symmetric Discrete Orthogonal Transform. IEEE Transactions on Circuits and Systems II: Express Briefs, 2014, 61, 284-288.	3.0	7
39	Real-time interactive image segmentation using improved superpixels. , 2015, , .		7
40	Impact of blood pressure control on retinal microvasculature in patients with chronic kidney disease. Scientific Reports, 2020, 10, 14275.	3.3	7
41	2D quaternion Fourier spectral analysis and its applications. , 0, , .		6
42	New corner detection algorithm by tangent and vertical axes and case table. , 2005, , .		6
43	Analysis of Attenuation Measurements in Ocean Sediments Using Normal Incidence Chirp Sonar. IEEE Journal of Oceanic Engineering, 2012, 37, 533-543.	3.8	6
44	Image retrieval based on quadtree classified vector quantization. Multimedia Tools and Applications, 2014, 72, 1961-1984.	3.9	6
45	Robust in-plane and out-of-plane face detection algorithm using frontal face detector and symmetry extension. Image and Vision Computing, 2018, 78, 26-41.	4.5	6
46	Structural similarity-based nonlocal edge-directed image interpolation. , 2013, , .		5
47	A real-time detection algorithm for freezing of gait in Parkinson's disease. , 2014, , .		5
48	Image deblurring using a pyramid-based Richardson-Lucy algorithm. , 2014, , .		5
49	Spectral–Temporal Receptive Field-Based Descriptors and Hierarchical Cascade Deep Belief Network for Guitar Playing Technique Classification. IEEE Transactions on Cybernetics, 2022, 52, 3684-3695.	9.5	5
50	Fractional, canonical, and simplified fractional cosine transforms. , 0, , .		4
51	The generalized radial Hilbert transform and its applications to 2D edge detection (any direction or) Tj ETQq $1\ 1$	0.784314	rgBT /Overloo
52	Context-based adaptive zigzag scanning for image coding. , 2011, , .		4
53	Jacket Haar transform. , 2011, , .		4
54	Coarse-to-fine temporal optimization for video retargeting based on seam carving., 2011,,.		4

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55	ECG baseline extraction by gradient varying weighting functions., 2013,,.		4
56	Advanced query by humming system using diffused hidden Markov model and tempo based dynamic programming. , $2016,$, .		4
57	Dynamic tracking attention model for action recognition. , 2017, , .		4
58	Exemplar-embed complex matrix factorization for facial expression recognition., 2017,,.		4
59	3-D Cell Segmentation by Improved V-Net Architecture Using Edge and Boundary Labels. , 2019, , .		4
60	Adaptive Prediction, Context Modeling, and Entropy Coding Methods for CALIC Lossless Image Compression. , 2019, , .		4
61	Integer discrete Fourier transform and its extension to integer trigonometric transforms. , 0, , .		3
62	Reversible integer color transform with bit-constraint., 2005,,.		3
63	DCT-Based Image Protection using Dual-Domain Bi-Watermarking Algorithm. , 2006, , .		3
64	Improved Reversible Integer Transform. , 0, , .		3
65	Short response Hilbert transform for edge detection. , 2008, , .		3
66	Asymmetric fourier descriptor of non-closed segments. , 2010, , .		3
67	Banknote reconstruction from fragments using quadratic programming and SIFT points. , 2014, , .		3
68	Haze detection and haze degree estimation using dark channels and contrast histograms. , 2015, , .		3
69	Adaptive growing and merging algorithm for image segmentation. , 2016, , .		3
70	Frontalization with Adaptive Exponentially-Weighted Average Ensemble Rule for Deep Learning Based Facial Expression Recognition. , $2018, \ldots$		3
71	Efficient EEG Signal Compression Algorithm with Long Length Improved Adaptive Arithmetic Coding and Advanced Division and Encoding Techniques. , $2018, , .$		3
72	Automatic Writer Verification Algorithm for Chinese Characters Using Semi-Global Features and Adaptive Classifier. , 2018 , , .		3

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73	Cell Segmentation Algorithm Using Double Thresholding with Morphology-Based Techniques. , 2018, , .		3
74	Improved Angle Freeman Chain Code Using Improved Adaptive Arithmetic Coding. , 2020, , .		3
75	Fractional Fourier Transforms and Wigner Distribution Functions for Stationary and Non-Stationary Random Process. , 0, , .		2
76	Muscle injury determination by image segmentation. , 2011, , .		2
77	Efficient discrete fractional Hirschman optimal transform and its application. , 2011, , .		2
78	Local prediction based adaptive scanning for JPEG and H.264/AVC intra coding. , 2013, , .		2
79	Nonlocal context modeling and adaptive prediction for lossless image coding. , 2013, , .		2
80	Advanced contour compression algorithm using weighted curvature, Lagrange curve approximation, and improvement adaptive arithmetic coding., 2015,,.		2
81	An efficient sky detection algorithm based on hybrid probability model. , 2015, , .		2
82	Efficient image deblurring via blockwise non-blind deconvolution algorithm. , 2015, , .		2
83	Shape-adaptive image compression using lossy shape coding, SA-prediction, and SA-deblocking. , 2016, , .		2
84	Improved frequency table adjusting algorithms for context-based adaptive lossless image coding. , 2016, , .		2
85	Occlusion pattern-based dictionary for robust face recognition. , 2016, , .		2
86	Improved convolutional neural network based scene classification using long short-term memory and label relations. , 2017, , .		2
87	Dolphin Recognition with Adaptive Hybrid Saliency Detection for Deep Learning Based on DenseNet Recognition. , 2018, , .		2
88	Novel Adaptive Rood Path Searches with Small Motion Prejudgments for Fast Block Motion Estimation. , 2018, , .		2
89	Super-Resolution via Wavelet Transform and Advanced Learning Techniques. , 2019, , .		2
90	Automatic Chinese Handwriting Verification Algorithm Using Deep Neural Networks., 2019,,.		2

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91	Backbone Alignment and Cascade Tiny Object Detecting Techniques for Dolphin Detection and Classification. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2021, E104.A, 734-743.	0.3	2
92	Simplified structures for two-dimensional adaptive notch filters. , 0, , .		1
93	Discrete Fractional Fourier Transform Based on New Nearly Tridiagonal Commuting Matrices. , 0, , .		1
94	Reducing Sampling Error by Prolate Spheroidal Wave Functions and Fractional Fourier Transform. , 0,		1
95	Coefficient-truncated higher-order commuting matrices of the discrete fourier transform. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	1
96	Efficient DC term encoding scheme based on double prediction algorithms and Pareto probability models. , $2013, , .$		1
97	Improved structural similarity measurement for vocal signals. , 2013, , .		1
98	Fast morphology algorithm with parallel processing structures. , 2014, , .		1
99	End-point preserved stroke extraction. , 2014, , .		1
100	A region adaptive encoding algorithm for simple image compression. , 2014, , .		1
101	Compression for the feature points with binary descriptors. , 2014, , .		1
102	Multilayer image disparity estimation and blending for light field cameras. , 2015, , .		1
103	Lossless contour compression using morphology, chain coding, and distribution transform. , 2015, , .		1
104	Nonlocal means image denoising based on bidirectional principal component analysis. , 2015, , .		1
105	Morphology-based disparity estimation and rendering algorithm for light field images. , 2016, , .		1
106	Action recognition using three dimension convolution and long short term memory. , 2017, , .		1
107	Advanced one-bit transform algorithm with edge enhancement and representative feature extraction for low-complexity and accurate motion estimation. , 2017, , .		1
108	Prediction techniques for wavelet based 1-D signal compression. , 2017, , .		1

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109	Flipping and blending based highly robust in-plane and out-of-plane color face detection. , 2017, , .		1
110	Advanced Orientation Robust Face Detection Algorithm Using Prominent Features and Hybrid Learning Techniques. , 2018, , .		1
111	Highly Robust Dolphin Detection Algorithm in Occluded Cases. , 2018, , .		1
112	Advanced Ear Detection Algorithm Using Faster R-CNN, Refocus Filters, and the Gradient Map., 2018, , .		1
113	Learning Based Noise Identification Techniques Using Time-Frequency Analysis and the U-Net. , 2019, , .		1
114	Morphological Residue Encoding and Piecewise Approximation Techniques for Lossless Binary Image Compression. , 2019, , .		1
115	Learning Based SLIC Superpixel Generation and Image Segmentation. , 2019, , .		1
116	Multi-Viewpoint Patterns and Occlusions Handling Using Hybrid Features for Vehicle Tracking. , 2021, , .		1
117	SVM-Based Root Identification Algorithm Using Ridge Features and Eroded Masks. , 2020, , .		1
118	Graph Saliency Network: Using Graph Convolution Network on Saliency Detection. , 2020, , .		1
119	Pixelwise Image Sharpness Based on the Weighted Response Ratios of Short and Long Edge Detectors. , 2021, , .		1
120	Algorithm of Foveal Avascular Zone Detection with Denoising Mechanism Learning on Optical Coherence Tomography Angiography Images. , 2020, , .		1
121	Vehicle Distance Estimation Method Based on Monocular Camera. , 2020, , .		1
122	Learning Based Age Estimation Using Joint Loss and Facial Landmarks. , 2020, , .		1
123	Adaptive Superpixel-Based Disparity Estimation Algorithm Using Plane Information and Disparity Refining Mechanism in Stereo Matching. Symmetry, 2022, 14, 1005.	2.2	1
124	Saving the bandwidth in the fractional domain by generalized Hilbert transform pair relations. , 0, , .		0
125	2-D affine generalized fractional Fourier transform. , 1999, , .		O
126	Eigenfunctions of the canonical transform and the self-imaging problems in optical system. , 0, , .		0

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127	Natural images phase encoding and encryption with the same spectrum amplitude., 2009,,.		O
128	Saliency detection improved by Principle Component Analysis and boundary scoring approach. , 2012, , .		0
129	Generalized polynomial wigner spectrogram for high-resolution time-frequency analysis. , 2013, , .		0
130	Noise removing for time-variant vocal signal by generalized modulation., 2013,,.		0
131	Facial expression recognition using expression-specific local binary patterns and layer denoising mechanism., 2013,,.		0
132	Less buffer sized efficienct compression algorithm based on column DCTs, Row DWTs, and predictive coding. , 2013, , .		0
133	Integer multichannel transform. , 2013, , .		0
134	A novel compression algorithm for IMFs of Hilbert-Huang transform. , 2014, , .		0
135	Horizontal adaptive disparity estimation scheme for stereoscopic images. , 2015, , .		O
136	An improved approach for face detection using superpixels, moment-based matching, and isosceles triangle matching. , 2016 , , .		0
137	A new adaptive coefficient scanning based on local and global prediction. Signal, Image and Video Processing, 2016, 10, 189-197.	2.7	0
138	High quality and efficient light field image rendering based on white image compensation. , 2017, , .		0
139	Collagen image compression using the JPEG-based predictive lossless coding scheme. , 2017, , .		0
140	Adaptive 3D cell segmentation and tracing algorithm using convex separation and histogram information for vivo images. , 2017, , .		0
141	Disparity estimation using adaptive superpixel assignment and gradient weight, binary cost, and dilation based local matching algorithm., 2017,,.		0
142	So-BRIEF: Fast recognition of rectangular objects. , 2017, , .		0
143	Generalized atom and dictionary design and compressive sensing for vocal signal expansion. , 2017, , .		0
144	Generalized Jacket Transform with Arbitrary Integer Entries. , 2018, , .		0

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145	Efficient Recurrent Detection for Visual Tracking. , 2018, , .		O
146	Region Adaptive Mode Selection Algorithms for Image Super-Resolution. , 2019, , .		O
147	Automatic Handwriting Verification and Suspect Identification for Chinese Characters Using Space and Frequency Domain Features. , 2019, , .		O
148	Prominent facial feature and hybrid learning method-based advanced face detector robust to head-up, head-down, and arbitrary rotation cases. Signal, Image and Video Processing, 2021, 15, 147-154.	2.7	0
149	Deep Learning Based EBCOT Source Symbol Prediction Technique for JPEG2000 Image Compression Architecture., 2020,,.		O
150	High-Order Sychrosqueezing Transforms and Its Application for Highly Accurate Animal Voice Analysis. , 2021, , .		0
151	Face and Head Detection for Back View Cases Using Gradient Features and Learning Architecture. , 2021, , .		O
152	Age Estimation Model Using Multi-Class Architecture and Adaptive Regression Models. , 2021, , .		0
153	Distribution-Adaptive Contexts and Probability Model Adjusting for Lossless Image Compression. , 2021, , .		O
154	Deep Neural Network and Weighted Ridge Regression Based Pixel Prediction Technique. , 2020, , .		0
155	Comprehensive Detail Refinement Network for Vehicle Re-identification. , 2020, , .		O
156	Advanced Superpixel-Based Features and Machine Learning Based Saliency Detection., 2020,,.		0
157	Dynamic Motion Vector Searching Algorithm Using Window Adjustment, Global Motion Information, and Direction Priors. , 2020, , .		O
158	All Characteristics Preservation: Single Image Dehazing based on Hierarchical Detail Reconstruction Wavelet Decomposition Network., 2021,,.		0
159	Polling Mechanism for Video Deepfake. , 2021, , .		O
160	Border Compensation Scheme for Image Deblurring., 2021,,.		0
161	Superpixel and Plane Information Based Disparity Estimation Algorithm in Stereo Matching. , 2021, , .		0
162	Single and Double Element Dynamic Programming Algorithm for Melody Matching. , 2022, , .		0

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163	Baseball Rotation Identification Algorithm Based on Seam Curvature Matching and Pixel Similarity. , 2021, , .		O
164	Advanced Context-Modeling and Frequency Table Adjusting Methods for Motion Vector Encoding. , 2021, , .		0
165	K-Means Clustering Based Adaptive Context Assignment Method for Image AC Term Encoding. , 2021, , .		O