

Xudong Jiang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

164
papers

4,101
citations

37
h-index

58
g-index

206
ext. papers

5,272
ext. citations

5.1
avg, IF

6.25
L-index

#	Paper	IF	Citations
164	Recurrent Affine Transform Encoder for Image Representation. <i>IEEE Access</i> , 2022 , 1-1	3.5	
163	Multistage Spatio-Temporal Networks for Robust Sketch Recognition.. <i>IEEE Transactions on Image Processing</i> , 2022 , 31, 2683-2694	8.7	1
162	Space-efficient optical computing with an integrated chip diffractive neural network.. <i>Nature Communications</i> , 2022 , 13, 1044	17.4	8
161	Spatial Feature Mapping for 6DoF Object Pose Estimation. <i>Pattern Recognition</i> , 2022 , 108835	7.7	0
160	Single Image Reflection Removal with Absorption Effect 2021 ,		6
159	Efficient On-Chip Training of Optical Neural Networks Using Genetic Algorithm. <i>ACS Photonics</i> , 2021 , 8, 1662-1672	6.3	6
158	Structural and diffusion MRI based schizophrenia classification using 2D pretrained and 3D naive Convolutional Neural Networks. <i>Schizophrenia Research</i> , 2021 ,	3.6	5
157	Complex common spatial patterns on time-frequency decomposed EEG for brain-computer interface. <i>Pattern Recognition</i> , 2021 , 115, 107918	7.7	4
156	Efficient Sketch Recognition Via Compact Spatial Embedding Graph Neural Networks 2021 ,		1
155	Brain Functional Changes in Stroke Following Rehabilitation Using Brain-Computer Interface-Assisted Motor Imagery With and Without tDCS: A Pilot Study. <i>Frontiers in Human Neuroscience</i> , 2021 , 15, 692304	3.3	3
154	Variational posterior approximation using stochastic gradient ascent with adaptive stepsize. <i>Pattern Recognition</i> , 2021 , 112, 107783	7.7	1
153	A three-step classification framework to handle complex data distribution for radar UAV detection. <i>Pattern Recognition</i> , 2021 , 111, 107709	7.7	7
152	Joint Feature Optimization and Fusion for Compressed Action Recognition. <i>IEEE Transactions on Image Processing</i> , 2021 , 30, 7926-7937	8.7	1
151	Rare bioparticle detection deep metric learning.. <i>RSC Advances</i> , 2021 , 11, 17603-17610	3.7	2
150	Towards Enhancing Fine-grained Details for Image Matting 2021 ,		1
149	Deep learning-enabled imaging flow cytometry for high-speed <i>Cryptosporidium</i> and <i>Giardia</i> detection. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2021 , 99, 1123-1133	4.6	4
148	Knowledge-aware deep framework for collaborative skin lesion segmentation and melanoma recognition. <i>Pattern Recognition</i> , 2021 , 120, 108075	7.7	7

147	NBNN-Based Discriminative 3D Action and Gesture Recognition. <i>Human-computer Interaction Series</i> , 2021 , 31-47	0.6	
146	An optical neural chip for implementing complex-valued neural network. <i>Nature Communications</i> , 2021 , 12, 457	17.4	58
145	Machine Learning-Based Pipeline for High Accuracy Bioparticle Sizing. <i>Micromachines</i> , 2020 , 11,	3.3	2
144	Early Action Recognition With Category Exclusion Using Policy-Based Reinforcement Learning. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2020 , 30, 4626-4638	6.4	13
143	Deep Clustering With Variational Autoencoder. <i>IEEE Signal Processing Letters</i> , 2020 , 27, 231-235	3.2	18
142	Semantic Segmentation with Context Encoding and Multi-Path Decoding. <i>IEEE Transactions on Image Processing</i> , 2020 ,	8.7	46
141	PhraseClick: Toward Achieving Flexible Interactive Segmentation by Phrase and Click. <i>Lecture Notes in Computer Science</i> , 2020 , 417-435	0.9	3
140	Temporal Distinct Representation Learning for Action Recognition. <i>Lecture Notes in Computer Science</i> , 2020 , 363-378	0.9	8
139	Skin lesion segmentation via generative adversarial networks with dual discriminators. <i>Medical Image Analysis</i> , 2020 , 64, 101716	15.4	64
138	Brain MRI-based 3D Convolutional Neural Networks for Classification of Schizophrenia and Controls. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 1742-1745	0.9	5
137	What Does Plate Glass Reveal About Camera Calibration? 2020 ,		2
136	Feature Boosting Network For 3D Pose Estimation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2020 , 42, 494-501	13.3	44
135	Learning local feature representation from matching, clustering and spatial transform. <i>Journal of Visual Communication and Image Representation</i> , 2019 , 63, 102601	2.7	0
134	Dermoscopic Image Segmentation Through the Enhanced High-Level Parsing and Class Weighted Loss 2019 ,		6
133	Retinal vessel segmentation by a divide-and-conquer funnel-structured classification framework. <i>Signal Processing</i> , 2019 , 165, 104-114	4.4	9
132	Melanoma Recognition in Dermoscopy Images via Aggregated Deep Convolutional Features. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 1006-1016	5	93
131	DeepDeblur: text image recovery from blur to sharp. <i>Multimedia Tools and Applications</i> , 2019 , 78, 18869-18885	1.8	9
130	Bi-directional Dermoscopic Feature Learning and Multi-scale Consistent Decision Fusion for Skin Lesion Segmentation. <i>IEEE Transactions on Image Processing</i> , 2019 ,	8.7	15

129	Boundary-Aware Feature Propagation for Scene Segmentation 2019 ,		65
128	2019 ,		48
127	SPLINE-Net: Sparse Photometric Stereo Through Lighting Interpolation and Normal Estimation Networks 2019 ,		20
126	Denosing Adversarial Networks for Rain Removal and Reflection Removal 2019 ,		3
125	Blood vessel segmentation from fundus image by a cascade classification framework. <i>Pattern Recognition</i> , 2019 , 88, 331-341	7.7	57
124	Palmprint identification using sparse and dense hybrid representation. <i>Multimedia Tools and Applications</i> , 2019 , 78, 5665-5679	2.5	10
123	Off-Feature Information Incorporated Metric Learning for Face Recognition. <i>IEEE Signal Processing Letters</i> , 2018 , 25, 541-545	3.2	5
122	Deep Coupled ResNet for Low-Resolution Face Recognition. <i>IEEE Signal Processing Letters</i> , 2018 , 25, 526-530	3.2	106
121	Feature Weighting and Regularization of Common Spatial Patterns in EEG-Based Motor Imagery BCI. <i>IEEE Signal Processing Letters</i> , 2018 , 25, 783-787	3.2	36
120	Deformable Pose Traversal Convolution for 3D Action and Gesture Recognition. <i>Lecture Notes in Computer Science</i> , 2018 , 142-157	0.9	28
119	Towards Achieving Robust Low-level and High-level Scene Parsing. <i>IEEE Transactions on Image Processing</i> , 2018 ,	8.7	11
118	Feature fusion with covariance matrix regularization in face recognition. <i>Signal Processing</i> , 2018 , 144, 296-305	4.4	19
117	Context Contrasted Feature and Gated Multi-scale Aggregation for Scene Segmentation 2018 ,		116
116	3D Convolutional Generative Adversarial Networks for Detecting Temporal Irregularities in Videos 2018 ,		5
115	Differential Amplitude of Low-Frequency Fluctuations in brain networks after BCI Training with and without tDCS in Stroke. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 1050-1053	0.9	3
114	An Ensemble Learning Method Based on Random Subspace Sampling for Palmprint Identification 2018 ,		2
113	Color space construction by optimizing luminance and chrominance components for face recognition. <i>Pattern Recognition</i> , 2018 , 83, 456-468	7.7	9
112	Regularized 2-D complex-log spectral analysis and subspace reliability analysis of micro-Doppler signature for UAV detection. <i>Pattern Recognition</i> , 2017 , 69, 225-237	7.7	41

111	A novel LBP-based Color descriptor for face recognition 2017 ,		10
110	Discovering Class-Specific Spatial Layouts for Scene Recognition. <i>IEEE Signal Processing Letters</i> , 2017 , 24, 1143-1147	3.2	7
109	. <i>IEEE Transactions on Multimedia</i> , 2017 , 19, 447-458	6.6	26
108	Enhance deep learning performance in face recognition 2017 ,		4
107	Accurate Cervical Cell Segmentation from Overlapping Clumps in Pap Smear Images. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 288-300	11.7	117
106	Multi-modal and multi-layout discriminative learning for placental maturity staging. <i>Pattern Recognition</i> , 2017 , 63, 719-730	7.7	6
105	LBP-Structure Optimization With Symmetry and Uniformity Regularizations for Scene Classification. <i>IEEE Signal Processing Letters</i> , 2017 , 24, 37-41	3.2	4
104	Laplace gradient based Discriminative and Contrast Invertible descriptor 2017 ,		1
103	Aggregating Deep Convolutional Features for Melanoma Recognition in Dermoscopy Images. <i>Lecture Notes in Computer Science</i> , 2017 , 238-246	0.9	13
102	Shadow detection using double-threshold pulse coupled neural networks 2016 ,		2
101	Human Body Part Selection by Group Lasso of Motion for Model-Free Gait Recognition. <i>IEEE Signal Processing Letters</i> , 2016 , 23, 154-158	3.2	59
100	Contrast Invariant Interest Point Detection by Zero-Norm LoG Filter. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 331-42	8.7	7
99	Face and Facial Expressions Recognition and Analysis. <i>Human-computer Interaction Series</i> , 2016 , 3-29	0.6	3
98	Classwise Sparse and Collaborative Patch Representation for Face Recognition. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 3261-3272	8.7	37
97	An effective color space for face recognition 2016 ,		6
96	Learning LBP structure by maximizing the conditional mutual information. <i>Pattern Recognition</i> , 2015 , 48, 3180-3190	7.7	48
95	A chi-squared-transformed subspace of LBP histogram for visual recognition. <i>IEEE Transactions on Image Processing</i> , 2015 , 24, 1893-904	8.7	19
94	LBP Encoding Schemes Jointly Utilizing the Information of Current Bit and Other LBP Bits. <i>IEEE Signal Processing Letters</i> , 2015 , 22, 2373-2377	3.2	12

93	Quantized fuzzy LBP for face recognition 2015 ,		5
92	Sparse and Dense Hybrid Representation via Dictionary Decomposition for Face Recognition. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2015 , 37, 1067-79	13.3	123
91	Fast match-on-card technique using in-matcher clustering with ISO minutia template. <i>International Journal of Biometrics</i> , 2015 , 7, 119	0.4	0
90	A Color Channel Fusion Approach for Face Recognition. <i>IEEE Signal Processing Letters</i> , 2015 , 22, 1839-1843	3.2	16
89	LBP-based edge-texture features for object recognition. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 1953-64	8.7	167
88	Additive and exclusive noise suppression by iterative trimmed and truncated mean algorithm. <i>Signal Processing</i> , 2014 , 99, 147-158	4.4	16
87	Supervised trace lasso for robust face recognition 2014 ,		5
86	Optimizing LBP Structure For Visual Recognition Using Binary Quadratic Programming. <i>IEEE Signal Processing Letters</i> , 2014 , 21, 1346-1350	3.2	49
85	Human detection by quadratic classification on subspace of extended histogram of gradients. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 287-97	8.7	47
84	Learning Discriminative and Shareable Features for Scene Classification. <i>Lecture Notes in Computer Science</i> , 2014 , 552-568	0.9	31
83	Noise-resistant local binary pattern with an embedded error-correction mechanism. <i>IEEE Transactions on Image Processing</i> , 2013 , 22, 4049-60	8.7	158
82	Relaxed local ternary pattern for face recognition 2013 ,		27
81	Fully automatic face recognition framework based on local and global features. <i>Machine Vision and Applications</i> , 2013 , 24, 537-549	2.8	20
80	Interest point detection using rank order LoG filter. <i>Pattern Recognition</i> , 2013 , 46, 2890-2901	7.7	37
79	A complete and fully automated face verification system on mobile devices. <i>Pattern Recognition</i> , 2013 , 46, 45-56	7.7	34
78	Weighted Iterative Truncated Mean Filter. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 4149-4160	4.8	23
77	Visual object detection by parts-based modeling using extended histogram of gradients 2013 ,		1
76	Human detection using Discriminative and Robust Local Binary Pattern 2013 ,		10

75	Robust face recognition using trimmed linear regression 2013 ,			3
74	Discriminative sparsity preserving embedding for face recognition 2013 ,			9
73	Learning binarized pixel-difference pattern for scene recognition 2013 ,			8
72	Dynamic texture recognition using enhanced LBP features 2013 ,			29
71	A vote of confidence based interest point detector 2013 ,			5
70	ISO/IEC standards for on-card biometric comparison. <i>International Journal of Biometrics</i> , 2013 , 5, 30	0.4		1
69	Analysis on differential gene expression data for prediction of new biological features in permanent atrial fibrillation. <i>PLoS ONE</i> , 2013 , 8, e76166	3.7		9
68	Binarization of low-quality barcode images captured by mobile phones using local window of adaptive location and size. <i>IEEE Transactions on Image Processing</i> , 2012 , 21, 418-25	8.7		30
67	Iterative truncated arithmetic mean filter and its properties. <i>IEEE Transactions on Image Processing</i> , 2012 , 21, 1537-47	8.7		28
66	Modular Weighted Global Sparse Representation for Robust Face Recognition. <i>IEEE Signal Processing Letters</i> , 2012 , 19, 571-574	3.2		32
65	Further Properties and a Fast Realization of the Iterative Truncated Arithmetic Mean Filter. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2012 , 59, 810-814	3.5		10
64	A novel rank order LoG filter for interest point detection 2012 ,			5
63	Face alignment based on the multi-scale local features 2012 ,			3
62	Linear Subspace Learning-Based Dimensionality Reduction. <i>IEEE Signal Processing Magazine</i> , 2011 , 28, 16-26	9.4		110
61	Face recognition based on the multi-scale local image structures. <i>Pattern Recognition</i> , 2011 , 44, 2565-2575	7.5		36
60	A fast and accurate cascade subspace face/eye detector on mobile devices 2011 ,			3
59	APPLICATION OF POLAR HARMONIC TRANSFORMS TO FINGERPRINT CLASSIFICATION. <i>Series in Computer Vision</i> , 2011 , 297-311			3
58	Embedding Binary Watermarks in Dual-Tree Complex Wavelets Domain for Access Control of Digital Images. <i>Lecture Notes in Computer Science</i> , 2011 , 18-36	0.9		1

57	Image watermarking using dual-tree complex wavelet by coefficients swapping and group of coefficients quantization 2010 ,		2
56	Quantifying image distortions using SVD 2010 ,		2
55	Extended Histogram of Gradients feature for human detection 2010 ,		9
54	Accurate localization of four extreme corners for barcode images captured by mobile phones 2010 ,		4
53	Two-dimensional polar harmonic transforms for invariant image representation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2010 , 32, 1259-70	13.3	154
52	Prediction of eigenvalues and regularization of eigenfeatures for human face verification. <i>Pattern Recognition Letters</i> , 2010 , 31, 717-724	4.7	16
51	Image quality assessment by discrete orthogonal moments. <i>Pattern Recognition</i> , 2010 , 43, 4055-4068	7.7	38
50	Feature extraction for image recognition and computer vision 2009 ,		15
49	Generating secure cancelable fingerprint templates using local and global features 2009 ,		5
48	SIFT features for face recognition 2009 ,		15
47	Iris recognition on edge maps. <i>IET Computer Vision</i> , 2009 , 3, 1	1.4	31
46	Complete discriminant evaluation and feature extraction in kernel space for face recognition. <i>Machine Vision and Applications</i> , 2009 , 20, 35-46	2.8	22
45	A multi-prototype clustering algorithm. <i>Pattern Recognition</i> , 2009 , 42, 689-698	7.7	50
44	Face recognition using sift features 2009 ,		62
43	Eye detection based on rank order filter 2009 ,		7
42	Asymmetric principal component and discriminant analyses for pattern classification. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2009 , 31, 931-7	13.3	93
41	Data preparation for sample-based face detection. <i>International Journal of Computer Applications in Technology</i> , 2009 , 35, 10	0.7	5
40	Eigenfeature regularization and extraction in face recognition. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2008 , 30, 383-94	13.3	214

39	Verification of human faces using predicted eigenvalues 2008 ,		8
38	Boosted complex moments for discriminant rotation invariant object recognition 2008 ,		2
37	An interactive and secure user authentication scheme for mobile devices 2008 ,		1
36	Difference of Gaussian Edge-Texture Based Background Modeling for Dynamic Traffic Conditions. <i>Lecture Notes in Computer Science</i> , 2008 , 406-417	0.9	4
35	Extracting image orientation feature by using integration operator. <i>Pattern Recognition</i> , 2007 , 40, 705-717	7.7	20
34	Efficient fingerprint search based on database clustering. <i>Pattern Recognition</i> , 2007 , 40, 1793-1803	7.7	53
33	Dimensionality reduction in subspace face recognition 2007 ,		12
32	High Capacity Data Hiding for Binary Images in Morphological Wavelet Transform Domain 2007 ,		1
31	Face Recognition Based on Discriminant Evaluation in the Whole Space 2007 ,		9
30	Robust eyeball segmentation in noisy iris images using fourier spectral density 2007 ,		23
29	Iris recognition on edge maps 2007 ,		2
28	Fingerprint Retrieval for Identification. <i>IEEE Transactions on Information Forensics and Security</i> , 2006 , 1, 532-542	8	72
27	Enhanced maximum likelihood face recognition. <i>Electronics Letters</i> , 2006 , 42, 1089	1.1	20
26	Fingerprint Identification with Exclusive and Continuous Classification 2006 ,		1
25	Multi-Scale Feature Extraction for Face Recognition 2006 ,		7
24	Fingerprint Retrieval by Complex Filter Responses 2006 ,		1
23	On orientation and anisotropy estimation for online fingerprint authentication. <i>IEEE Transactions on Signal Processing</i> , 2005 , 53, 4038-4049	4.8	27
22	Fingerprint Reference-Point Detection. <i>Eurasip Journal on Advances in Signal Processing</i> , 2005 , 2005, 1	1.9	51

21	Model-guided deformable hand shape recognition without positioning aids. <i>Pattern Recognition</i> , 2005 , 38, 1651-1664	7.7	39
20	Relaxation of Hard Classification Targets for LSE Minimization. <i>Lecture Notes in Computer Science</i> , 2005 , 187-202	0.9	
19	A reduced multivariate polynomial model for multimodal biometrics and classifiers fusion. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2004 , 14, 224-233	6.4	30
18	Exploiting global and local decisions for multimodal biometrics verification. <i>IEEE Transactions on Signal Processing</i> , 2004 , 52, 3059-3072	4.8	61
17	Reference point detection for fingerprint recognition 2004 ,		14
16	Fingerprint Reference Point Detection. <i>Lecture Notes in Computer Science</i> , 2004 , 272-279	0.9	6
15	A Hyperbolic Function Model for Multiple Biometrics Decision Fusion. <i>Lecture Notes in Computer Science</i> , 2004 , 655-662	0.9	0
14	Image detail-preserving filter for impulsive noise attenuation. <i>IET Computer Vision</i> , 2003 , 150, 179		14
13	Constructing and training feed-forward neural networks for pattern classification. <i>Pattern Recognition</i> , 2003 , 36, 853-867	7.7	43
12	Combining Fingerprint and Hand-Geometry Verification Decisions. <i>Lecture Notes in Computer Science</i> , 2003 , 688-696	0.9	5
11	Online fingerprint template improvement. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2002 , 24, 1121-1126	13.3	67
10	Detecting the fingerprint minutiae by adaptive tracing the gray-level ridge. <i>Pattern Recognition</i> , 2001 , 34, 999-1013	7.7	82
9	Minutiae extraction by adaptive tracing the gray level ridge of the fingerprint image 1999 ,		1
8	Frontal infrared human face detection by distance from centroid method		2
7	Fingerprint image quality analysis		2
6	Minutiae data synthesis for fingerprint identification applications		1
5	Fingerprint quality and validity analysis		24
4	Fingerprint image ridge frequency estimation by higher order spectrum		5

3	Fingerprint minutiae matching based on the local and global structures	111
2	A study of fingerprint image filtering	2
1	Machine-Learning-Assisted Intelligent Imaging Flow Cytometry: A Review. <i>Advanced Intelligent Systems</i> ,2100073	6 3