

Xudong Jiang

List of Publications by Year in descending order

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Version: 2024-02-01

202
papers

6,623
citations

71102

41
h-index

91884

69
g-index

206
all docs

206
docs citations

206
times ranked

4794
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and diffusion MRI based schizophrenia classification using 2D pretrained and 3D naive Convolutional Neural Networks. Schizophrenia Research, 2022, 243, 330-341.	2.0	23
2	Recurrent Affine Transform Encoder for Image Representation. IEEE Access, 2022, 10, 18653-18666.	4.2	1
3	Multistage Spatio-Temporal Networks for Robust Sketch Recognition. IEEE Transactions on Image Processing, 2022, 31, 2683-2694.	9.8	8
4	Deep Interactive Image Matting With Feature Propagation. IEEE Transactions on Image Processing, 2022, 31, 2421-2432.	9.8	10
5	Space-efficient optical computing with an integrated chip diffractive neural network. Nature Communications, 2022, 13, 1044.	12.8	90
6	Attention-Based Dual-Stream Vision Transformer for Radar Gait Recognition. , 2022, , .		11
7	Spatial feature mapping for 6DoF object pose estimation. Pattern Recognition, 2022, 131, 108835.	8.1	8
8	Variational posterior approximation using stochastic gradient ascent with adaptive stepsize. Pattern Recognition, 2021, 112, 107783.	8.1	2
9	A three-step classification framework to handle complex data distribution for radar UAV detection. Pattern Recognition, 2021, 111, 107709.	8.1	15
10	Joint Feature Optimization and Fusion for Compressed Action Recognition. IEEE Transactions on Image Processing, 2021, 30, 7926-7937.	9.8	7
11	Rare bioparticle detection <i>via</i> deep metric learning. RSC Advances, 2021, 11, 17603-17610.	3.6	4
12	Towards Enhancing Fine-grained Details for Image Matting. , 2021, , .		6
13	Deep <i>learning-enabled</i> imaging flow cytometry for <i>high-speed</i> <i>Cryptosporidium</i> and <i>Giardia</i> detection. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2021, 99, 1123-1133.	1.5	13
14	Efficient On-Chip Training of Optical Neural Networks Using Genetic Algorithm. ACS Photonics, 2021, 8, 1662-1672.	6.6	61
15	Machine-Learning-Assisted Intelligent Imaging Flow Cytometry: A Review. Advanced Intelligent Systems, 2021, 3, 2100073.	6.1	24
16	Complex common spatial patterns on time-frequency decomposed EEG for brain-computer interface. Pattern Recognition, 2021, 115, 107918.	8.1	33
17	Efficient Sketch Recognition Via Compact Spatial Embedding Graph Neural Networks. , 2021, , .		3
18	Brain Functional Changes in Stroke Following Rehabilitation Using Brain-Computer Interface-Assisted Motor Imagery With and Without tDCS: A Pilot Study. Frontiers in Human Neuroscience, 2021, 15, 692304.	2.0	16

#	ARTICLE	IF	CITATIONS
19	Front Matter: Volume 11913. , 2021, , .		0
20	Knowledge-aware deep framework for collaborative skin lesion segmentation and melanoma recognition. Pattern Recognition, 2021, 120, 108075.	8.1	27
21	An optical neural chip for implementing complex-valued neural network. Nature Communications, 2021, 12, 457.	12.8	251
22	Single Image Reflection Removal with Absorption Effect. , 2021, , .		22
23	Panoramic Image Reflection Removal. , 2021, , .		6
24	Vision-Language Transformer and Query Generation for Referring Segmentation. , 2021, , .		68
25	Interaction via Bi-directional Graph of Semantic Region Affinity for Scene Parsing. , 2021, , .		4
26	Feature Boosting Network For 3D Pose Estimation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 494-501.	13.9	79
27	Bi-Directional Dermoscopic Feature Learning and Multi-Scale Consistent Decision Fusion for Skin Lesion Segmentation. IEEE Transactions on Image Processing, 2020, 29, 3039-3051.	9.8	47
28	Brain MRI-based 3D Convolutional Neural Networks for Classification of Schizophrenia and Controls. , 2020, 2020, 1742-1745.		21
29	What Does Plate Glass Reveal About Camera Calibration?. , 2020, , .		6
30	Machine Learning-Based Pipeline for High Accuracy Bioparticle Sizing. Micromachines, 2020, 11, 1084.	2.9	5
31	Early Action Recognition With Category Exclusion Using Policy-Based Reinforcement Learning. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 4626-4638.	8.3	26
32	Deep Clustering With Variational Autoencoder. IEEE Signal Processing Letters, 2020, 27, 231-235.	3.6	49
33	Semantic Segmentation With Context Encoding and Multi-Path Decoding. IEEE Transactions on Image Processing, 2020, 29, 3520-3533.	9.8	103
34	Temporal Distinct Representation Learning for Action Recognition. Lecture Notes in Computer Science, 2020, , 363-378.	1.3	17
35	Skin lesion segmentation via generative adversarial networks with dual discriminators. Medical Image Analysis, 2020, 64, 101716.	11.6	156
36	Efficient Nonlinear Activation Function in Optical Neural Network. , 2020, , .		0

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37	Front Matter: Volume 11519. , 2020, , .		0
38	Object 6D pose estimation with non-local attention. , 2020, , .		0
39	PhraseClick: Toward Achieving Flexible Interactive Segmentation by Phrase and Click. Lecture Notes in Computer Science, 2020, , 417-435.	1.3	14
40	Editorial: Keeping identity in times of change. IET Biometrics, 2020, 9, 223-223.	2.5	0
41	Melanoma Recognition in Dermoscopy Images via Aggregated Deep Convolutional Features. IEEE Transactions on Biomedical Engineering, 2019, 66, 1006-1016.	4.2	172
42	Learning local feature representation from matching, clustering and spatial transform. Journal of Visual Communication and Image Representation, 2019, 63, 102601.	2.8	2
43	Dermoscopic Image Segmentation Through the Enhanced High-Level Parsing and Class Weighted Loss. , 2019, , .		7
44	Retinal vessel segmentation by a divide-and-conquer funnel-structured classification framework. Signal Processing, 2019, 165, 104-114.	3.7	19
45	A High Performance of Single Cell Imaging Detection with Deep Learning. , 2019, , .		0
46	Boundary-Aware Feature Propagation for Scene Segmentation. , 2019, , .		140
47	ICIVC 2019 Preface. , 2019, , .		0
48	Semantic Correlation Promoted Shape-Variant Context for Segmentation. , 2019, , .		101
49	SPLINE-Net: Sparse Photometric Stereo Through Lighting Interpolation and Normal Estimation Networks. , 2019, , .		42
50	Denosing Adversarial Networks for Rain Removal and Reflection Removal. , 2019, , .		3
51	Toward Achieving Robust Low-Level and High-Level Scene Parsing. IEEE Transactions on Image Processing, 2019, 28, 1378-1390.	9.8	21
52	Blood vessel segmentation from fundus image by a cascade classification framework. Pattern Recognition, 2019, 88, 331-341.	8.1	97
53	Palmprint identification using sparse and dense hybrid representation. Multimedia Tools and Applications, 2019, 78, 5665-5679.	3.9	16
54	DeepDeblur: text image recovery from blur to sharp. Multimedia Tools and Applications, 2019, 78, 18869-18885.	3.9	15

#	ARTICLE	IF	CITATIONS
55	Front Matter: Volume 11071. , 2019, , .		0
56	Front Matter: Volume 11198. , 2019, , .		0
57	Preface: irce 2019. , 2019, , .		0
58	Front Matter: Volume 11179. , 2019, , .		0
59	Off-Feature Information Incorporated Metric Learning for Face Recognition. IEEE Signal Processing Letters, 2018, 25, 541-545.	3.6	5
60	Deep Coupled ResNet for Low-Resolution Face Recognition. IEEE Signal Processing Letters, 2018, 25, 526-530.	3.6	183
61	Feature Weighting and Regularization of Common Spatial Patterns in EEG-Based Motor Imagery BCI. IEEE Signal Processing Letters, 2018, 25, 783-787.	3.6	59
62	Feature fusion with covariance matrix regularization in face recognition. Signal Processing, 2018, 144, 296-305.	3.7	23
63	Context Contrasted Feature and Gated Multi-scale Aggregation for Scene Segmentation. , 2018, , .		214
64	3D Convolutional Generative Adversarial Networks for Detecting Temporal Irregularities in Videos. , 2018, , .		7
65	Differential Amplitude of Low-Frequency Fluctuations in brain networks after BCI Training with and without tDCS in Stroke. , 2018, 2018, 1050-1053.		5
66	An Ensemble Learning Method Based on Random Subspace Sampling for Palmprint Identification. , 2018, , .		3
67	Color space construction by optimizing luminance and chrominance components for face recognition. Pattern Recognition, 2018, 83, 456-468.	8.1	15
68	Deformable Pose Traversal Convolution for 3D Action and Gesture Recognition. Lecture Notes in Computer Science, 2018, , 142-157.	1.3	44
69	Radar micro-doppler signature analysis and its application on gait recognition. , 2018, , .		0
70	Post-processing for retinal vessel detection. , 2018, , .		1
71	Front Matter: Volume 10806. , 2018, , .		0
72	Front Matter: Volume 10828. , 2018, , .		0

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73	Regularized 2-D complex-log spectral analysis and subspace reliability analysis of micro-Doppler signature for UAV detection. Pattern Recognition, 2017, 69, 225-237.	8.1	53
74	A novel LBP-based Color descriptor for face recognition. , 2017, , .		20
75	Enhancing retinal vessel segmentation by color fusion. , 2017, , .		4
76	Discovering Class-Specific Spatial Layouts for Scene Recognition. IEEE Signal Processing Letters, 2017, 24, 1143-1147.	3.6	9
77	Sound-Event Classification Using Robust Texture Features for Robot Hearing. IEEE Transactions on Multimedia, 2017, 19, 447-458.	7.2	40
78	Enhance deep learning performance in face recognition. , 2017, , .		15
79	Accurate Cervical Cell Segmentation from Overlapping Clumps in Pap Smear Images. IEEE Transactions on Medical Imaging, 2017, 36, 288-300.	8.9	167
80	Multi-modal and multi-layout discriminative learning for placental maturity staging. Pattern Recognition, 2017, 63, 719-730.	8.1	10
81	LBP-Structure Optimization With Symmetry and Uniformity Regularizations for Scene Classification. IEEE Signal Processing Letters, 2017, 24, 37-41.	3.6	6
82	Laplace gradient based Discriminative and Contrast Invertible descriptor. , 2017, , .		2
83	Aggregating Deep Convolutional Features for Melanoma Recognition in Dermoscopy Images. Lecture Notes in Computer Science, 2017, , 238-246.	1.3	21
84	Front Matter: Volume 10443. Proceedings of SPIE, 2017, , .	0.8	0
85	Front Matter: Volume 10420. Proceedings of SPIE, 2017, , .	0.8	0
86	Nonlinear retinal image enhancement for vessel detection. , 2017, , .		1
87	Front Matter: Volume 10011. Proceedings of SPIE, 2016, , .	0.8	0
88	Classwise Sparse and Collaborative Patch Representation for Face Recognition. IEEE Transactions on Image Processing, 2016, 25, 3261-3272.	9.8	47
89	An effective color space for face recognition. , 2016, , .		7
90	Sound-event classification using pseudo-color CENTRIST feature and classifier selection. Proceedings of SPIE, 2016, , .	0.8	1

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91	Shadow detection using double-threshold pulse coupled neural networks. , 2016, , .		4
92	Human Body Part Selection by Group Lasso of Motion for Model-Free Gait Recognition. IEEE Signal Processing Letters, 2016, 23, 154-158.	3.6	82
93	Contrast Invariant Interest Point Detection by Zero-Norm LoG Filter. IEEE Transactions on Image Processing, 2016, 25, 331-342.	9.8	10
94	Face and Facial Expressions Recognition and Analysis. Human-computer Interaction Series, 2016, , 3-29.	0.6	4
95	Front Matter: Volume 10033. Proceedings of SPIE, 2016, , .	0.8	0
96	Fast match-on-card technique using in-matcher clustering with ISO minutia template. International Journal of Biometrics, 2015, 7, 119.	0.4	2
97	A Color Channel Fusion Approach for Face Recognition. IEEE Signal Processing Letters, 2015, 22, 1839-1843.	3.6	18
98	Learning LBP structure by maximizing the conditional mutual information. Pattern Recognition, 2015, 48, 3180-3190.	8.1	61
99	A Chi-Squared-Transformed Subspace of LBP Histogram for Visual Recognition. IEEE Transactions on Image Processing, 2015, 24, 1893-1904.	9.8	23
100	LBP Encoding Schemes Jointly Utilizing the Information of Current Bit and Other LBP Bits. IEEE Signal Processing Letters, 2015, 22, 2373-2377.	3.6	13
101	Quantized fuzzy LBP for face recognition. , 2015, , .		7
102	Sparse and Dense Hybrid Representation via Dictionary Decomposition for Face Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 1067-1079.	13.9	142
103	LBP-Based Edge-Texture Features for Object Recognition. IEEE Transactions on Image Processing, 2014, 23, 1953-1964.	9.8	206
104	Additive and exclusive noise suppression by iterative trimmed and truncated mean algorithm. Signal Processing, 2014, 99, 147-158.	3.7	17
105	Supervised trace lasso for robust face recognition. , 2014, , .		6
106	Optimizing LBP Structure For Visual Recognition Using Binary Quadratic Programming. IEEE Signal Processing Letters, 2014, 21, 1346-1350.	3.6	67
107	Human Detection by Quadratic Classification on Subspace of Extended Histogram of Gradients. IEEE Transactions on Image Processing, 2014, 23, 287-297.	9.8	55
108	Learning Discriminative and Shareable Features for Scene Classification. Lecture Notes in Computer Science, 2014, , 552-568.	1.3	42

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109	Noise-Resistant Local Binary Pattern With an Embedded Error-Correction Mechanism. IEEE Transactions on Image Processing, 2013, 22, 4049-4060.	9.8	195
110	Relaxed local ternary pattern for face recognition. , 2013, , .		37
111	Fully automatic face recognition framework based on local and global features. Machine Vision and Applications, 2013, 24, 537-549.	2.7	23
112	Interest point detection using rank order LoG filter. Pattern Recognition, 2013, 46, 2890-2901.	8.1	44
113	A complete and fully automated face verification system on mobile devices. Pattern Recognition, 2013, 46, 45-56.	8.1	41
114	Weighted Iterative Truncated Mean Filter. IEEE Transactions on Signal Processing, 2013, 61, 4149-4160.	5.3	29
115	Visual object detection by parts-based modeling using extended histogram of gradients. , 2013, , .		1
116	Human detection using Discriminative and Robust Local Binary Pattern. , 2013, , .		14
117	Robust face recognition using trimmed linear regression. , 2013, , .		5
118	Discriminative sparsity preserving embedding for face recognition. , 2013, , .		11
119	Learning binarized pixel-difference pattern for scene recognition. , 2013, , .		9
120	Dynamic texture recognition using enhanced LBP features. , 2013, , .		40
121	A vote of confidence based interest point detector. , 2013, , .		5
122	ISO/IEC standards for on-card biometric comparison. International Journal of Biometrics, 2013, 5, 30.	0.4	4
123	Analysis on Differential Gene Expression Data for Prediction of New Biological Features in Permanent Atrial Fibrillation. PLoS ONE, 2013, 8, e76166.	2.5	9
124	A novel rank order LoG filter for interest point detection. , 2012, , .		5
125	Face alignment based on the multi-scale local features. , 2012, , .		3
126	Modular Weighted Global Sparse Representation for Robust Face Recognition. IEEE Signal Processing Letters, 2012, 19, 571-574.	3.6	45

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127	Further Properties and a Fast Realization of the Iterative Truncated Arithmetic Mean Filter. IEEE Transactions on Circuits and Systems II: Express Briefs, 2012, 59, 810-814.	3.0	12
128	Binarization of Low-Quality Barcode Images Captured by Mobile Phones Using Local Window of Adaptive Location and Size. IEEE Transactions on Image Processing, 2012, 21, 418-425.	9.8	40
129	Iterative Truncated Arithmetic Mean Filter and Its Properties. IEEE Transactions on Image Processing, 2012, 21, 1537-1547.	9.8	40
130	Linear Subspace Learning-Based Dimensionality Reduction. IEEE Signal Processing Magazine, 2011, 28, 16-26.	5.6	140
131	Extended Histogram of Gradients with Asymmetric Principal Component and Discriminant Analyses for Human Detection. , 2011, , .		4
132	Face recognition based on the multi-scale local image structures. Pattern Recognition, 2011, 44, 2565-2575.	8.1	46
133	A fast and accurate cascade subspace face/eye detector on mobile devices. , 2011, , .		3
134	Embedding Binary Watermarks in Dual-Tree Complex Wavelets Domain for Access Control of Digital Images. Lecture Notes in Computer Science, 2011, , 18-36.	1.3	1
135	APPLICATION OF POLAR HARMONIC TRANSFORMS TO FINGERPRINT CLASSIFICATION. Series in Computer Vision, 2011, , 297-311.	0.1	3
136	Prediction of eigenvalues and regularization of eigenfeatures for human face verification. Pattern Recognition Letters, 2010, 31, 717-724.	4.2	18
137	Special issue on: Recent advances and future directions in biometrics personal identification. Journal of Network and Computer Applications, 2010, 33, 205-206.	9.1	0
138	Image quality assessment by discrete orthogonal moments. Pattern Recognition, 2010, 43, 4055-4068.	8.1	46
139	Image watermarking using dual-tree complex wavelet by coefficients swapping and group of coefficients quantization. , 2010, , .		4
140	Quantifying image distortions using SVD. , 2010, , .		2
141	Extended Histogram of Gradients feature for human detection. , 2010, , .		17
142	Dynamic window construction for the binarization of barcode images captured by mobile phones. , 2010, , .		2
143	Accurate localization of four extreme corners for barcode images captured by mobile phones. , 2010, , .		8
144	Two-Dimensional Polar Harmonic Transforms for Invariant Image Representation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 1259-1270.	13.9	208

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145	Recent Advances on Documents Authentication Based on the Data Hiding and Watermarking Techniques. Recent Patents on Computer Science, 2010, 3, 233-243.	0.5	0
146	Fast eye localization based on pixel differences. , 2009, , .		7
147	Feature extraction for image recognition and computer vision. , 2009, , .		29
148	Generating secure cancelable fingerprint templates using local and global features. , 2009, , .		15
149	SIFT features for face recognition. , 2009, , .		26
150	Iris recognition on edge maps. IET Computer Vision, 2009, 3, 1.	2.0	42
151	Complete discriminant evaluation and feature extraction in kernel space for face recognition. Machine Vision and Applications, 2009, 20, 35-46.	2.7	28
152	A multi-prototype clustering algorithm. Pattern Recognition, 2009, 42, 689-698.	8.1	68
153	Face recognition using sift features. , 2009, , .		116
154	Eye detection based on rank order filter. , 2009, , .		9
155	Asymmetric Principal Component and Discriminant Analyses for Pattern Classification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 931-937,.	13.9	109
156	Data preparation for sample-based face detection. International Journal of Computer Applications in Technology, 2009, 35, 10.	0.5	6
157	Fingerprint Classification. , 2009, , 439-446.		5
158	Token-Based Fingerprint Authentication. Recent Patents on Computer Science, 2009, 2, 50-58.	0.5	4
159	Eigenfeature Regularization and Extraction in Face Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 383-394.	13.9	258
160	Verification of human faces using predicted eigenvalues. , 2008, , .		10
161	Boosted complex moments for discriminant rotation invariant object recognition. , 2008, , .		2
162	An interactive and secure user authentication scheme for mobile devices. , 2008, , .		2

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163	Difference of Gaussian Edge-Texture Based Background Modeling for Dynamic Traffic Conditions. Lecture Notes in Computer Science, 2008, , 406-417.	1.3	5
164	Database Clustering Based on Multi-Prototype Representation of Cluster. , 2007, , .		0
165	Dimensionality reduction in subspace face recognition. , 2007, , .		17
166	High Capacity Data Hiding for Binary Images in Morphological Wavelet Transform Domain. , 2007, , .		4
167	Face Recognition Based on Discriminant Evaluation in the Whole Space. , 2007, , .		10
168	LDA enhanced moments. , 2007, , .		0
169	Robust eyeball segmentation in noisy iris images using fourier spectral density. , 2007, , .		26
170	Iris recognition on edge maps. , 2007, , .		3
171	Extracting image orientation feature by using integration operator. Pattern Recognition, 2007, 40, 705-717.	8.1	26
172	Efficient fingerprint search based on database clustering. Pattern Recognition, 2007, 40, 1793-1803.	8.1	68
173	Fingerprint Retrieval by Complex Filter Responses. , 2006, , .		10
174	Fingerprint Retrieval for Identification. IEEE Transactions on Information Forensics and Security, 2006, 1, 532-542.	6.9	88
175	Enhanced maximum likelihood face recognition. Electronics Letters, 2006, 42, 1089.	1.0	22
176	Fingerprint Identification with Exclusive and Continuous Classification. , 2006, , .		2
177	Multi-Scale Feature Extraction for Face Recognition. , 2006, , .		11
178	Fingerprint Reference-Point Detection. Eurasip Journal on Advances in Signal Processing, 2005, 2005, 1.	1.7	70
179	Model-guided deformable hand shape recognition without positioning aids. Pattern Recognition, 2005, 38, 1651-1664.	8.1	46
180	On orientation and anisotropy estimation for online fingerprint authentication. IEEE Transactions on Signal Processing, 2005, 53, 4038-4049.	5.3	38

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181	Relaxation of Hard Classification Targets for LSE Minimization. Lecture Notes in Computer Science, 2005, , 187-202.	1.3	0
182	A Reduced Multivariate Polynomial Model for Multimodal Biometrics and Classifiers Fusion. IEEE Transactions on Circuits and Systems for Video Technology, 2004, 14, 224-233.	8.3	49
183	Exploiting Global and Local Decisions for Multimodal Biometrics Verification. IEEE Transactions on Signal Processing, 2004, 52, 3059-3072.	5.3	89
184	Reference point detection for fingerprint recognition. , 2004, , .		15
185	A Hyperbolic Function Model for Multiple Biometrics Decision Fusion. Lecture Notes in Computer Science, 2004, , 655-662.	1.3	1
186	Image detail-preserving filter for impulsive noise attenuation. IET Computer Vision, 2003, 150, 179.	1.3	19
187	Constructing and training feed-forward neural networks for pattern classification. Pattern Recognition, 2003, 36, 853-867.	8.1	50
188	Combining Fingerprint and Hand-Geometry Verification Decisions. Lecture Notes in Computer Science, 2003, , 688-696.	1.3	7
189	Online fingerprint template improvement. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2002, 24, 1121-1126.	13.9	83
190	Detecting the fingerprint minutiae by adaptive tracing the gray-level ridge. Pattern Recognition, 2001, 34, 999-1013.	8.1	99
191	Minutiae extraction by adaptive tracing the gray level ridge of the fingerprint image. , 1999, , .		6
192	Fingerprint image ridge frequency estimation by higher order spectrum. , 0, , .		9
193	Fundamental frequency estimation by higher order spectrum. , 0, , .		0
194	Fingerprint minutiae matching based on the local and global structures. , 0, , .		221
195	A study of fingerprint image filtering. , 0, , .		4
196	Minutiae data synthesis for fingerprint identification applications. , 0, , .		4
197	Effective and efficient fingerprint image postprocessing. , 0, , .		1
198	Fingerprint quality and validity analysis. , 0, , .		57

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199	Frontal infrared human face detection by distance from centroid method. , 0, , .		4
200	Fingerprint image quality analysis. , 0, , .		3
201	Nonlinear Fingerprint Orientation Smoothing by Median Filter. , 0, , .		5
202	Improved Bayesian Approach for Face Recognition. , 0, , .		1