

# Liang Wang

## List of Publications by Year in descending order

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354  
papers

22,181  
citations

22099

59  
h-index

13727

129  
g-index

370  
all docs

370  
docs citations

370  
times ranked

12791  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey on Visual Surveillance of Object Motion and Behaviors. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2004, 34, 334-352.	3.3	1,666
2	Silhouette analysis-based gait recognition for human identification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2003, 25, 1505-1518.	9.7	932
3	Recent developments in human motion analysis. Pattern Recognition, 2003, 36, 585-601.	5.1	784
4	An SVD-based watermarking scheme for protecting rightful ownership. IEEE Transactions on Multimedia, 2002, 4, 121-128.	5.2	757
5	Personal identification based on iris texture analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2003, 25, 1519-1533.	9.7	745
6	Efficient Iris Recognition by Characterizing Key Local Variations. IEEE Transactions on Image Processing, 2004, 13, 739-750.	6.0	721
7	A Light CNN for Deep Face Representation With Noisy Labels. IEEE Transactions on Information Forensics and Security, 2018, 13, 2884-2896.	4.5	721
8	Recent advances and trends in visual tracking: A review. Neurocomputing, 2011, 74, 3823-3831.	3.5	685
9	A Comprehensive Study on Cross-View Gait Based Human Identification with Deep CNNs. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 209-226.	9.7	497
10	A system for learning statistical motion patterns. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 1450-1464.	9.7	449
11	Brief review of invariant texture analysis methods. Pattern Recognition, 2002, 35, 735-747.	5.1	374
12	CASIA Image Tampering Detection Evaluation Database. , 2013, , .		306
13	Fusion of Static and Dynamic Body Biometrics for Gait Recognition. IEEE Transactions on Circuits and Systems for Video Technology, 2004, 14, 149-158.	5.6	299
14	A Dynamic Recurrent Model for Next Basket Recommendation. , 2016, , .		296
15	Toward Accurate and Fast Iris Segmentation for Iris Biometrics. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 1670-1684.	9.7	289
16	Wavelet-SRNet: A Wavelet-Based CNN for Multi-scale Face Super Resolution. , 2017, , .		266
17	Automatic gait recognition based on statistical shape analysis. IEEE Transactions on Image Processing, 2003, 12, 1120-1131.	6.0	258
18	Joint Feature Selection and Subspace Learning for Cross-Modal Retrieval. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 2010-2023.	9.7	252

#	ARTICLE	IF	CITATIONS
19	Feature Coding in Image Classification: A Comprehensive Study. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 493-506.	9.7	249
20	Efficient and robust segmentation of noisy iris images for non-cooperative iris recognition. Image and Vision Computing, 2010, 28, 223-230.	2.7	248
21	A Study on Gait-Based Gender Classification. IEEE Transactions on Image Processing, 2009, 18, 1905-1910.	6.0	242
22	Feature Selection Based on Structured Sparsity: A Comprehensive Study. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1490-1507.	7.2	239
23	<title>Live face detection based on the analysis of Fourier spectra</title>. , 2004, , .		225
24	Half-Quadratic-Based Iterative Minimization for Robust Sparse Representation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 261-275.	9.7	224
25	Ordinal Measures for Iris Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 2211-2226.	9.7	218
26	See the Forest for the Trees: Joint Spatial and Temporal Recurrent Neural Networks for Video-Based Person Re-identification. , 2017, , .		218
27	China Brain Project: Basic Neuroscience, Brain Diseases, and Brain-Inspired Computing. Neuron, 2016, 92, 591-596.	3.8	207
28	Principal axis-based correspondence between multiple cameras for people tracking. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 663-671.	9.7	206
29	Real-time hand tracking using a mean shift embedded particle filter. Pattern Recognition, 2007, 40, 1958-1970.	5.1	204
30	Wasserstein CNN: Learning Invariant Features for NIR-VIS Face Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1761-1773.	9.7	199
31	Local intensity variation analysis for iris recognition. Pattern Recognition, 2004, 37, 1287-1298.	5.1	198
32	Fast Supervised Discrete Hashing. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 490-496.	9.7	192
33	Traffic Accident Prediction Using 3-D Model-Based Vehicle Tracking. IEEE Transactions on Vehicular Technology, 2004, 53, 677-694.	3.9	191
34	Deep learning for steganalysis via convolutional neural networks. Proceedings of SPIE, 2015, , .	0.8	183
35	Robust view transformation model for gait recognition. , 2011, , .		175
36	Learning Coupled Feature Spaces for Cross-Modal Matching. , 2013, , .		168

#	ARTICLE	IF	CITATIONS
37	A Framework for Evaluating the Effect of View Angle, Clothing and Carrying Condition on Gait Recognition. , 2006, , .		166
38	Comparison of Similarity Measures for Trajectory Clustering in Outdoor Surveillance Scenes. , 2006, , .		136
39	Font recognition based on global texture analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2001, 23, 1192-1200.	9.7	128
40	LFNet: A Novel Bidirectional Recurrent Convolutional Neural Network for Light-Field Image Super-Resolution. IEEE Transactions on Image Processing, 2018, 27, 4274-4286.	6.0	120
41	Accurate iris segmentation in non-cooperative environments using fully convolutional networks. , 2016, , .		119
42	Learning Activity Patterns Using Fuzzy Self-Organizing Neural Network. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 1618-1626.	5.5	117
43	Human Activity Recognition Based on R Transform. , 2007, , .		117
44	A real-time object detecting and tracking system for outdoor night surveillance. Pattern Recognition, 2008, 41, 432-444.	5.1	114
45	DeepIris: Learning pairwise filter bank for heterogeneous iris verification. Pattern Recognition Letters, 2016, 82, 154-161.	2.6	113
46	Deep Feature Fusion for Iris and Periocular Biometrics on Mobile Devices. IEEE Transactions on Information Forensics and Security, 2018, 13, 2897-2912.	4.5	110
47	Iris Matching Based on Personalized Weight Map. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 1744-1757.	9.7	109
48	Salient coding for image classification. , 2011, , .		107
49	Boosted local structured HOG-LBP for object localization. , 2011, , .		105
50	Gabor Ordinal Measures for Face Recognition. IEEE Transactions on Information Forensics and Security, 2014, 9, 14-26.	4.5	105
51	Do singular values contain adequate information for face recognition?. Pattern Recognition, 2003, 36, 649-655.	5.1	104
52	Auto-encoder Based Data Clustering. Lecture Notes in Computer Science, 2013, , 117-124.	1.0	103
53	Ordinal Palmprint Representation for Personal Identification. , 0, , .		102
54	Learning and transferring representations for image steganalysis using convolutional neural network. , 2016, , .		101

#	ARTICLE	IF	CITATIONS
55	Improving Iris Recognition Accuracy Via Cascaded Classifiers. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2005, 35, 435-441.	3.3	100
56	3-D model-based vehicle tracking. IEEE Transactions on Image Processing, 2005, 14, 1561-1569.	6.0	97
57	Automatic 3D face recognition from depth and intensity Gabor features. Pattern Recognition, 2009, 42, 1895-1905.	5.1	96
58	Iris Image Classification Based on Hierarchical Visual Codebook. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 1120-1133.	9.7	96
59	Towards Complete and Accurate Iris Segmentation Using Deep Multi-Task Attention Network for Non-Cooperative Iris Recognition. IEEE Transactions on Information Forensics and Security, 2020, 15, 2944-2959.	4.5	96
60	Three-Dimensional Deformable-Model-Based Localization and Recognition of Road Vehicles. IEEE Transactions on Image Processing, 2012, 21, 1-13.	6.0	94
61	Biometric personal identification based on handwriting. , 0, , .		93
62	<title>A fast and robust iris localization method based on texture segmentation</title>. , 2004, , .		93
63	Combining local features for robust nose location in 3D facial data. Pattern Recognition Letters, 2006, 27, 1487-1494.	2.6	87
64	Effective image splicing detection based on image chroma. , 2009, , .		86
65	Deep semantic ranking based hashing for multi-label image retrieval. , 2015, , .		86
66	Weakly Supervised Object Localization with Latent Category Learning. Lecture Notes in Computer Science, 2014, , 431-445.	1.0	86
67	Similarity based vehicle trajectory clustering and anomaly detection. , 2005, , .		82
68	Noisy iris image matching by using multiple cues. Pattern Recognition Letters, 2012, 33, 970-977.	2.6	79
69	A new face detection method based on shape information. Pattern Recognition Letters, 2000, 21, 463-471.	2.6	78
70	Information encryption with virtual-optics imaging system. Optics Communications, 2002, 212, 235-245.	1.0	77
71	Contact Lens Detection Based on Weighted LBP. , 2010, , .		76
72	Biologically Inspired Features for Scene Classification in Video Surveillance. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 307-313.	5.5	74

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73	End-to-End View Synthesis for Light Field Imaging with Pseudo 4DCNN. Lecture Notes in Computer Science, 2018, , 340-355.	1.0	73
74	A Hierarchical Self-Organizing Approach for Learning the Patterns of Motion Trajectories. IEEE Transactions on Neural Networks, 2004, 15, 135-144.	4.8	71
75	Weakly Supervised Large Scale Object Localization with Multiple Instance Learning and Bag Splitting. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 405-416.	9.7	70
76	Foreground Object Detection Using Top-Down Information Based on EM Framework. IEEE Transactions on Image Processing, 2012, 21, 4204-4217.	6.0	69
77	A Discriminative Model of Motion and Cross Ratio for View-Invariant Action Recognition. IEEE Transactions on Image Processing, 2012, 21, 2187-2197.	6.0	69
78	Enhanced Biologically Inspired Model for Object Recognition. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 1668-1680.	5.5	65
79	Exploring DCT Coefficient Quantization Effects for Local Tampering Detection. IEEE Transactions on Information Forensics and Security, 2014, 9, 1653-1666.	4.5	64
80	A Novel Algorithm for View and Illumination Invariant Image Matching. IEEE Transactions on Image Processing, 2012, 21, 229-240.	6.0	62
81	Kinematics-based tracking of human walking in monocular video sequences. Image and Vision Computing, 2004, 22, 429-441.	2.7	60
82	Representative Vector Machines: A Unified Framework for Classical Classifiers. IEEE Transactions on Cybernetics, 2016, 46, 1877-1888.	6.2	60
83	Supervised Discrete Hashing With Relaxation. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 608-617.	7.2	59
84	Demographic Analysis from Biometric Data: Achievements, Challenges, and New Frontiers. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 332-351.	9.7	56
85	Efficient Iris Spoof Detection via Boosted Local Binary Patterns. Lecture Notes in Computer Science, 2009, , 1080-1090.	1.0	55
86	Image tampering detection based on stationary distribution of Markov chain. , 2010, , .		55
87	Robust Recovery of Corrupted Low-RankMatrix by Implicit Regularizers. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 770-783.	9.7	55
88	Wavelet Domain Generative Adversarial Network for Multi-scale Face Hallucination. International Journal of Computer Vision, 2019, 127, 763-784.	10.9	55
89	Multi-task deep neural network for multi-label learning. , 2013, , .		54
90	Rapid and robust human detection and tracking based on omega-shape features. , 2009, , .		52

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91	A new iris segmentation method for recognition. , 2004, , .		51
92	Optimized 3D Lighting Environment Estimation for Image Forgery Detection. IEEE Transactions on Information Forensics and Security, 2017, 12, 479-494.	4.5	51
93	DeMeshNet: Blind Face Inpainting for Deep MeshFace Verification. IEEE Transactions on Information Forensics and Security, 2018, 13, 637-647.	4.5	51
94	Run-Length and Edge Statistics Based Approach for Image Splicing Detection. Lecture Notes in Computer Science, 2009, , 76-87.	1.0	50
95	Introduction to the Special Issue on Biometrics: Progress and Directions. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 513-516.	9.7	48
96	A study of multibiometric traits of identical twins. Proceedings of SPIE, 2010, , .	0.8	48
97	Ordinal Feature Selection for Iris and Palmprint Recognition. IEEE Transactions on Image Processing, 2014, 23, 3922-3934.	6.0	48
98	Robust 3D Face Recognition Using Learned Visual Codebook. , 2007, , .		46
99	Effects of watermarking on iris recognition performance. , 2008, , .		44
100	A Design of Iris Recognition System at a Distance. , 2009, , .		41
101	A cascade fusion scheme for gait and cumulative foot pressure image recognition. Pattern Recognition, 2012, 45, 3603-3610.	5.1	41
102	Robust Subspace Clustering via Half-Quadratic Minimization. , 2013, , .		41
103	Recovery of corrupted low-rank matrices via half-quadratic based nonconvex minimization. , 2011, , .		40
104	An Extended Grammar System for Learning and Recognizing Complex Visual Events. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 240-255.	9.7	40
105	Robust Biometric Key Extraction Based on Iris Cryptosystem. Lecture Notes in Computer Science, 2009, , 1060-1069.	1.0	39
106	A Survey of Passive Image Tampering Detection. Lecture Notes in Computer Science, 2009, , 308-322.	1.0	39
107	A new attempt to gait-based human identification. , 0, , .		38
108	People tracking based on motion model and motion constraints with automatic initialization. Pattern Recognition, 2004, 37, 1423-1440.	5.1	37

#	ARTICLE	IF	CITATIONS
109	Semi-supervised learning and feature evaluation for RGB-D object recognition. Computer Vision and Image Understanding, 2015, 139, 149-160.	3.0	37
110	Cast Shadow Removal Combining Local and Global Features. , 2007, , .		36
111	Cast Shadow Removal in a Hierarchical Manner Using MRF. IEEE Transactions on Circuits and Systems for Video Technology, 2012, 22, 56-66.	5.6	33
112	A Code-Level Approach to Heterogeneous Iris Recognition. IEEE Transactions on Information Forensics and Security, 2017, 12, 2373-2386.	4.5	32
113	Multispectral palm image fusion for accurate contact-free palmprint recognition. , 2008, , .		31
114	Vs-star: A visual interpretation system for visual surveillance. Pattern Recognition Letters, 2010, 31, 2265-2285.	2.6	31
115	$l_1$ and $l_2$ Regularized correntropy for robust feature selection. , 2012, , .		30
116	Early Hierarchical Contexts Learned by Convolutional Networks for Image Segmentation. , 2014, , .		30
117	An iris image synthesis method based on PCA and super-resolution. , 2004, , .		29
118	Iris Localization via Pulling and Pushing. , 2006, , .		29
119	Trajectory Series Analysis based Event Rule Induction for Visual Surveillance. , 2007, , .		29
120	Practical Camera Calibration From Moving Objects for Traffic Scene Surveillance. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 518-533.	5.6	29
121	Object tracking across non-overlapping views by learning inter-camera transfer models. Pattern Recognition, 2014, 47, 1126-1137.	5.1	29
122	Coupled feature selection for cross-sensor iris recognition. , 2013, , .		28
123	Semi-supervised Learning for RGB-D Object Recognition. , 2014, , .		28
124	Dynamic Graph Collaborative Filtering. , 2020, , .		28
125	Texture removal for adaptive level set based iris segmentation. , 2010, , .		27
126	Exploring relations of visual codes for image classification. , 2011, , .		27



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127	Feedback Convolutional Neural Network for Visual Localization and Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1627-1640.	9.7	27
128	Learning predictable binary codes for face indexing. Pattern Recognition, 2015, 48, 3160-3168.	5.1	26
129	Gesture recognition using temporal template based trajectories. , 2004, , .		25
130	Learning Appearance Primitives of Iris Images for Ethnic Classification. , 2007, , .		25
131	Personalized ranking with pairwise Factorization Machines. Neurocomputing, 2016, 214, 191-200.	3.5	25
132	Visual tracking via incremental self-tuning particle filtering on the affine group. , 2010, , .		24
133	Evaluation framework on translation-invariant representation for cumulative foot pressure image. , 2011, , .		24
134	Hierarchical Shape Primitive Features for Online Text-independent Writer Identification. , 2009, , .		23
135	Contextual Operation for Recommender Systems. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 2000-2012.	4.0	23
136	Feature learning for steganalysis using convolutional neural networks. Multimedia Tools and Applications, 2018, 77, 19633-19657.	2.6	23
137	Transferring deep representation for NIR-VIS heterogeneous face recognition. , 2016, , .		22
138	Transformation invariant subspace clustering. Pattern Recognition, 2016, 59, 142-155.	5.1	22
139	High quality depth map estimation of object surface from light-field images. Neurocomputing, 2017, 252, 3-16.	3.5	22
140	High-fidelity View Synthesis for Light Field Imaging With Extended Pseudo 4DCNN. IEEE Transactions on Computational Imaging, 2020, 6, 830-842.	2.6	22
141	Fusion of global and local features for face verification. , 0, , .		21
142	Efficient Night Gait Recognition Based on Template Matching. , 2006, , .		21
143	Practical camera auto-calibration based on object appearance and motion for traffic scene visual surveillance. , 2008, , .		21
144	Efficient Object Tracking by Incremental Self-Tuning Particle Filtering on the Affine Group. IEEE Transactions on Image Processing, 2012, 21, 1298-1313.	6.0	20

#	ARTICLE	IF	CITATIONS
145	Blind Image Steganalysis Based on Statistical Analysis of Empirical Matrix. , 2006, , .		19
146	Online Text-independent Writer Identification Based on Temporal Sequence and Shape Codes. , 2009, , .		19
147	Robust iris segmentation based on learned boundary detectors. , 2012, , .		19
148	Distance metric learning for recognizing low-resolution iris images. Neurocomputing, 2014, 144, 484-492.	3.5	19
149	Boosting ordinal features for accurate and fast iris recognition. , 2008, , .		18
150	View-Independent Behavior Analysis. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 1028-1035.	5.5	18
151	Bin-based classifier fusion of iris and face biometrics. Neurocomputing, 2017, 224, 105-118.	3.5	17
152	Enhanced biologically inspired model. , 2008, , .		16
153	Human Behavior Analysis Based on a New Motion Descriptor. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 1830-1840.	5.6	16
154	Topology modeling for Adaboost-cascade based object detection. Pattern Recognition Letters, 2010, 31, 912-919.	2.6	16
155	Key Techniques and Methods for Imaging Iris in Focus. , 2006, , .		15
156	Social-Relational Topic Model for Social Networks. , 2015, , .		15
157	Articulated model based people tracking using motion models. , 0, , .		14
158	Fusion of Face and Palmprint for Personal Identification Based on Ordinal Features. , 2007, , .		14
159	EDA Approach for Model Based Localization and Recognition of Vehicles. , 2007, , .		14
160	Blind image steganalysis based on run-length histogram analysis. , 2008, , .		14
161	Comprehensive assessment of iris image quality. , 2011, , .		14
162	Code-level information fusion of low-resolution iris image sequences for personal identification at a distance. , 2013, , .		14

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163	A simple and robust super resolution method for light field images. , 2016, , .		14
164	Learning Effective Intrinsic Features to Boost 3D-Based Face Recognition. Lecture Notes in Computer Science, 2006, , 416-427.	1.0	14
165	Semantic Pixel Sets Based Local Binary Patterns for Face Recognition. Lecture Notes in Computer Science, 2013, , 639-651.	1.0	14
166	Affine invariant classification and retrieval of texture images. Pattern Recognition, 2003, 36, 657-664.	5.1	13
167	A novel approach to detecting adult images. , 2004, , .		13
168	A novel registration method for SAR and SPOT images. , 2005, , .		13
169	Online Appearance Model Learning for Video-Based Face Recognition. , 2007, , .		13
170	Abnormal Activity Recognition in Office Based on R Transform. Proceedings International Conference on Image Processing, 2007, , .	0.0	13
171	Self-adaptive iris image acquisition system. , 2008, , .		13
172	3D Model Based Vehicle Tracking Using Gradient Based Fitness Evaluation under Particle Filter Framework. , 2010, , .		13
173	Baseline Results for Violence Detection in Still Images. , 2012, , .		13
174	Fusion of Iris and Periocular Biometrics for Cross-Sensor Identification. Lecture Notes in Computer Science, 2012, , 202-209.	1.0	13
175	Extended optimization method of LSB steganalysis. , 2005, , .		12
176	Recognizing Night Walkers Based on One Pseudoshape Representation of Gait. , 2007, , .		12
177	Robust eyelid, eyelash and shadow localization for iris recognition. , 2008, , .		12
178	Hierarchical Fusion of Face and Iris for Personal Identification. , 2010, , .		12
179	Exploring DCT coefficient quantization effect for image tampering localization. , 2011, , .		12
180	Histograms of Gabor Ordinal Measures for face representation and recognition. , 2012, , .		12

#	ARTICLE	IF	CITATIONS
181	Coupled Topic Model for Collaborative Filtering With User-Generated Content. IEEE Transactions on Human-Machine Systems, 2016, 46, 908-920.	2.5	12
182	CASIA-Face-Africa: A Large-Scale African Face Image Database. IEEE Transactions on Information Forensics and Security, 2021, 16, 3634-3646.	4.5	12
183	Tampered Region Localization of Digital Color Images Based on JPEG Compression Noise. Lecture Notes in Computer Science, 2011, , 120-133.	1.0	12
184	Cross-Spectral Iris Recognition by Learning Device-Specific Band. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 3810-3824.	5.6	12
185	Towards More Discriminative and Robust Iris Recognition by Learning Uncertain Factors. IEEE Transactions on Information Forensics and Security, 2022, 17, 865-879.	4.5	12
186	Spatio-temporal segmentation for video surveillance. Electronics Letters, 2001, 37, 20.	0.5	11
187	Traffic accident prediction using vehicle tracking and trajectory analysis. , 0, , .		11
188	Robust nose detection in 3d facial data using local characteristics. , 0, , .		11
189	Fusion Based Blind Image Steganalysis by Boosting Feature Selection. Lecture Notes in Computer Science, 2008, , 87-98.	1.0	11
190	An effective image steganalysis method based on neighborhood information of pixels. , 2011, , .		11
191	Deformable DAISY Matcher for robust iris recognition. , 2011, , .		11
192	Improved 3D lighting environment estimation for image forgery detection. , 2015, , .		11
193	Automatic detection of 3D lighting inconsistencies via a facial landmark based morphable model. , 2016, , .		11
194	NIR Iris Challenge Evaluation in Non-cooperative Environments: Segmentation and Localization. , 2021, , .		11
195	<title>Iris recognition: recent progress and remaining challenges</title>. , 2004, , .		10
196	Learning efficient codes for 3D face recognition. , 2008, , .		10
197	New developments in color image tampering detection. , 2010, , .		10
198	Direction-based stochastic matching for pedestrian recognition in non-overlapping cameras. , 2011, , .		10

#	ARTICLE	IF	CITATIONS
199	Exploring complementary features for iris recognition on mobile devices. , 2016, , .		10
200	Learning Relevance Restricted Boltzmann Machine for Unstructured Group Activity and Event Understanding. International Journal of Computer Vision, 2016, 119, 329-345.	10.9	10
201	Exploring generalized shape analysis by topological representations. Pattern Recognition Letters, 2017, 87, 177-185.	2.6	10
202	Modeling Complex Scenes for Accurate Moving Objects Segmentation. Lecture Notes in Computer Science, 2011, , 82-94.	1.0	10
203	Ethnic Classification Based on Iris Images. Lecture Notes in Computer Science, 2011, , 82-90.	1.0	10
204	Personal handwriting identification based on PCA. , 2002, , .		9
205	Learning Boosted Asymmetric Classifiers for Object Detection. , 0, , .		9
206	Quality-based dynamic threshold for iris matching. , 2009, , .		9
207	Orthogonal Diagonal Projections for Gait Recognition. Proceedings International Conference on Image Processing, 2007, , .	0.0	8
208	Robust Low-Rank Representation via Correntropy. , 2013, , .		8
209	Local salient patterns &#x2014; A novel local descriptor for face recognition. , 2013, , .		8
210	Margin Based Feature Selection for Cross-Sensor Iris Recognition via Linear Programming. , 2013, , .		8
211	Deformable Object Matching via Deformation Decomposition Based 2D Label MRF. , 2014, , .		8
212	Fusion of Face and Iris Biometrics on Mobile Devices Using Near-infrared Images. Lecture Notes in Computer Science, 2015, , 569-578.	1.0	8
213	Robust direction estimation of gradient vector field for iris recognition. , 2004, , .		7
214	Semantic-based traffic video retrieval using activity pattern analysis. , 0, , .		7
215	A compact optical flowbased motion representation for real-time action recognition in surveillance scenes. , 2009, , .		7
216	A feature-level solution to off-angle iris recognition. , 2013, , .		7

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217	Deformed iris recognition using bandpass geometric features and lowpass ordinal features. , 2013, , .		7
218	Learning Representations for Steganalysis from Regularized CNN Model with Auxiliary Tasks. Lecture Notes in Electrical Engineering, 2016, , 629-637.	0.3	7
219	Complementary Cohort Strategy for Multimodal Face Pair Matching. IEEE Transactions on Information Forensics and Security, 2016, 11, 937-950.	4.5	7
220	Image Forensics Based on Planar Contact Constraints of 3D Objects. IEEE Transactions on Information Forensics and Security, 2018, 13, 377-392.	4.5	7
221	Cross-sensor iris recognition using adversarial strategy and sensor-specific information. , 2019, , .		7
222	Multi-class Blind Steganalysis Based on Image Run-Length Analysis. Lecture Notes in Computer Science, 2009, , 199-210.	1.0	7
223	Real-Time Head Pose Estimation Using Random Regression Forests. Lecture Notes in Computer Science, 2011, , 66-73.	1.0	7
224	Combining null space-based Gabor features for face recognition. , 2004, , .		6
225	<title>Three-dimensional face recognition using geometric model</title>. , 2004, , .		6
226	Automatic 3D face modeling from video. , 2005, , .		6
227	Robust automated ground plane rectification based on moving vehicles for traffic scene surveillance. , 2008, , .		6
228	Partial Least Squares based subwindow search for pedestrian detection. , 2011, , .		6
229	Efficient auto-refocusing of iris images for light-field cameras. , 2014, , .		6
230	An optimal set of code words and correntropy for rotated least squares regression. , 2014, , .		6
231	Introduction to the Special Section on Biometric Systems and Applications. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 1457-1460.	5.9	6
232	Conditional High-Order Boltzmann Machines for Supervised Relation Learning. IEEE Transactions on Image Processing, 2017, 26, 4297-4310.	6.0	6
233	Iris Anti-spoofing. Advances in Computer Vision and Pattern Recognition, 2014, , 103-123.	0.9	6
234	Security enhancement of biometrics, cryptography and data hiding by their combinations. , 2008, , .		6

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235	Group Activity Recognition Based on ARMA Shape Sequence Modeling. , 2007, , .		5
236	Robust 3D face recognition in uncontrolled environments. , 2008, , .		5
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