Ajay Kumar

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.

68 4,965 40 117 h-index g-index citations papers 6,003 6.6 120 5.7 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
117	Accurate 3D Finger Knuckle Recognition Using Auto-Generated Similarity Functions. <i>IEEE Transactions on Biometrics, Behavior, and Identity Science</i> , 2021 , 3, 203-213	4.3	1
116	Deep Feature Collaboration for Challenging 3D Finger Knuckle Identification. <i>IEEE Transactions on Information Forensics and Security</i> , 2021 , 16, 1158-1173	8	3
115	Periocular-Assisted Multi-Feature Collaboration for Dynamic Iris Recognition. <i>IEEE Transactions on Information Forensics and Security</i> , 2021 , 16, 866-879	8	8
114	Minutiae Attention Network With Reciprocal Distance Loss for Contactless to Contact-Based Fingerprint Identification. <i>IEEE Transactions on Information Forensics and Security</i> , 2021 , 16, 3299-3311	8	1
113	Mycobacterium tuberculosis glyceraldehyde-3-phosphate dehydrogenase plays a dual role-As an adhesin and as a receptor for plasmin(ogen). <i>Cellular Microbiology</i> , 2021 , 23, e13311	3.9	1
112	Towards More Accurate Contactless Fingerprint Minutiae Extraction and Pose-Invariant Matching. <i>IEEE Transactions on Information Forensics and Security</i> , 2020 , 1-1	8	6
111	Contactless Palmprint Identification Using Deeply Learned Residual Features. <i>IEEE Transactions on Biometrics, Behavior, and Identity Science</i> , 2020 , 2, 172-181	4.3	17
110	Efficient and Accurate 3D Finger Knuckle Matching using Surface Key Points. <i>IEEE Transactions on Image Processing</i> , 2020 , PP,	8.7	1
109	Contactless Biometric Identification Using 3D Finger Knuckle Patterns. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2020 , 42, 1868-1883	13.3	11
108	Numerical Reflectance Compensation for Non-Lambertian Photometric Stereo. <i>IEEE Transactions on Image Processing</i> , 2019 , 28, 3177-3191	8.7	6
107	Toward More Accurate Iris Recognition Using Dilated Residual Features. <i>IEEE Transactions on Information Forensics and Security</i> , 2019 , 14, 3233-3245	8	32
106	A deep learning based unified framework to detect, segment and recognize irises using spatially corresponding features. <i>Pattern Recognition</i> , 2019 , 93, 546-557	7.7	34
105	Toward More Accurate Matching of Contactless Palmprint Images Under Less Constrained Environments. <i>IEEE Transactions on Information Forensics and Security</i> , 2019 , 14, 34-47	8	20
104	A CNN-Based Framework for Comparison of Contactless to Contact-Based Fingerprints. <i>IEEE Transactions on Information Forensics and Security</i> , 2019 , 14, 662-676	8	28
103	Toward Pose Invariant and Completely Contactless Finger Knuckle Recognition. <i>IEEE Transactions on Biometrics, Behavior, and Identity Science</i> , 2019 , 1, 201-209	4.3	6
102	Cross-spectral iris recognition using CNN and supervised discrete hashing. <i>Pattern Recognition</i> , 2019 , 86, 85-98	7.7	46
101	Finger vein identification using Convolutional Neural Network and supervised discrete hashing. <i>Pattern Recognition Letters</i> , 2019 , 119, 148-156	4.7	46

(2016-2018)

100	Matching Contactless and Contact-based Conventional Fingerprint Images for Biometrics Identification. <i>IEEE Transactions on Image Processing</i> , 2018 , 27, 2008-2021	8.7	37
99	Contactless and partial 3D fingerprint recognition using multi-view deep representation. <i>Pattern Recognition</i> , 2018 , 83, 314-327	7.7	35
98	3D Fingerprint Image Preprocessing and Enhancement. <i>Advances in Computer Vision and Pattern Recognition</i> , 2018 , 63-69	1.1	
97	3D Fingerprint Acquisition Using Coloured Photometric Stereo. <i>Advances in Computer Vision and Pattern Recognition</i> , 2018 , 53-62	1.1	
96	Revisiting Outlier Rejection Approach for Non-Lambertian Photometric Stereo. <i>IEEE Transactions on Image Processing</i> , 2018 ,	8.7	3
95	Tetrahedron Based Fast 3D Fingerprint Identification Using Colored LEDs Illumination. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2018 , 40, 3022-3033	13.3	15
94	Advancing Surface Feature Encoding and Matching for More Accurate 3D Biometric Recognition 2018 ,		2
93	Representation, Recovery and Matching of 3D Minutiae Template. <i>Advances in Computer Vision and Pattern Recognition</i> , 2018 , 71-94	1.1	
92	Contactless 3D Fingerprint Identification. <i>Advances in Computer Vision and Pattern Recognition</i> , 2018 ,	1.1	20
91	Other Methods for 3D Fingerprint Matching. <i>Advances in Computer Vision and Pattern Recognition</i> , 2018 , 95-108	1.1	
90	3D Fingerprint Image Acquisition Methods. <i>Advances in Computer Vision and Pattern Recognition</i> , 2018 , 17-27	1.1	
89	Improving Periocular Recognition by Explicit Attention to Critical Regions in Deep Neural Network. <i>IEEE Transactions on Information Forensics and Security</i> , 2018 , 13, 2937-2952	8	43
88	Accurate Periocular Recognition Under Less Constrained Environment Using Semantics-Assisted Convolutional Neural Network. <i>IEEE Transactions on Information Forensics and Security</i> , 2017 , 12, 1017-	1030	62
87	Finger Vein Identification Using Convolutional Neural Network and Supervised Discrete Hashing. <i>Advances in Computer Vision and Pattern Recognition</i> , 2017 , 109-132	1.1	18
86	Toward More Accurate Iris Recognition Using Cross-Spectral Matching. <i>IEEE Transactions on Image Processing</i> , 2017 , 26, 208-221	8.7	70
85	Multi-Siamese networks to accurately match contactless to contact-based fingerprint images 2017 ,		7
84	Towards More Accurate Iris Recognition Using Deeply Learned Spatially Corresponding Features 2017 ,		53
83	Personal Identification Using Minor Knuckle Patterns From Palm Dorsal Surface. <i>IEEE Transactions</i> on Information Forensics and Security, 2016 , 11, 2338-2348	8	20

82	A 3D Feature Descriptor Recovered from a Single 2D Palmprint Image. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2016 , 38, 1272-9	13.3	46
81	Recognizing human faces under disguise and makeup 2016 ,		22
8o	Suspecting Less and Doing Better: New Insights on Palmprint Identification for Faster and More Accurate Matching. <i>IEEE Transactions on Information Forensics and Security</i> , 2016 , 11, 633-641	8	40
79	Adaptive management of multimodal biometrics fusion using ant colony optimization. <i>Information Fusion</i> , 2016 , 32, 49-63	16.7	30
78	Advancing Cross-Spectral Iris Recognition Research Using Bi-Spectral Imaging. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 1-10	0.4	8
77	On matching cross-spectral periocular images for accurate biometrics identification 2016 ,		13
76	Recovering and matching minutiae patterns from finger knuckle images. <i>Pattern Recognition Letters</i> , 2015 , 68, 361-367	4.7	21
75	An Accurate Iris Segmentation Framework Under Relaxed Imaging Constraints Using Total Variation Model 2015 ,		64
74	Towards Contactless, Low-Cost and Accurate 3D Fingerprint Identification. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2015 , 37, 681-96	13.3	41
73	Integrating ocular and iris descriptors for fake iris image detection 2014,		8
72	Accurate Iris Recognition at a Distance Using Stabilized Iris Encoding and Zernike Moments Phase Features. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 3962-3974	8.7	68
71	Efficient and Accurate At-a-Distance Iris Recognition Using Geometric Key-Based Iris Encoding. <i>IEEE Transactions on Information Forensics and Security</i> , 2014 , 9, 1518-1526	8	26
70	Importance of Being Unique From Finger Dorsal Patterns: Exploring Minor Finger Knuckle Patterns in Verifying Human Identities. <i>IEEE Transactions on Information Forensics and Security</i> , 2014 , 9, 1288-129	9 <mark>8</mark>	33
69	Periocular Recognition Using Unsupervised Convolutional RBM Feature Learning 2014,		16
68	Can We Use Second Minor Finger Knuckle Patterns to Identify Humans? 2014,		10
67	Adaptive Security for Human Surveillance Using Multimodal Open Set Biometric Recognition 2014,		1
66	Recognizing disguised faces: human and machine evaluation. <i>PLoS ONE</i> , 2014 , 9, e99212	3.7	67
65	Adaptive and localized iris weight map for accurate iris recognition under less constrained environments 2013 ,		10

(2011-2013)

64	Towards online iris and periocular recognition under relaxed imaging constraints. <i>IEEE Transactions on Image Processing</i> , 2013 , 22, 3751-65	8.7	101
63	Robust ear identification using sparse representation of local texture descriptors. <i>Pattern Recognition</i> , 2013 , 46, 73-85	7.7	66
62	Towards Contactless, Low-Cost and Accurate 3D Fingerprint Identification 2013,		30
61	Automated human identification using ear imaging. Pattern Recognition, 2012, 45, 956-968	7.7	162
60	Human identification using finger images. IEEE Transactions on Image Processing, 2012, 21, 2228-44	8.7	338
59	Unified framework for automated iris segmentation using distantly acquired face images. <i>IEEE Transactions on Image Processing</i> , 2012 , 21, 4068-79	8.7	88
58	Efficient iris segmentation using Grow-Cut algorithm for remotely acquired iris images 2012,		9
57	Iris recognition using quaternionic sparse orientation code (QSOC) 2012,		17
56	Can we use minor finger knuckle images to identify humans? 2012,		21
55	Reliable ear identification using 2-D quadrature filters. <i>Pattern Recognition Letters</i> , 2012 , 33, 1870-188	31 _{4.7}	50
54	Human identification from at-a-distance face images using sparse representation of local iris features 2012 ,		16
53	Biometric Recognition: An Overview. <i>The International Library of Ethics, Law and Technology</i> , 2012 , 49-	7 9 0.5	65
52	Personal Identification Using Multibiometrics Rank-Level Fusion. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2011 , 41, 743-752		96
51	A Unified Framework for Contactless Hand Verification. <i>IEEE Transactions on Information Forensics and Security</i> , 2011 , 6, 1014-1027	8	78
50	Human Identification Using Palm-Vein Images. <i>IEEE Transactions on Information Forensics and Security</i> , 2011 , 6, 1259-1274	8	161
49	Contactless and pose invariant biometric identification using hand surface. <i>IEEE Transactions on Image Processing</i> , 2011 , 20, 1415-24	8.7	51
48	Contactless fingerprint identification using level zero features 2011,		33
47	Automated segmentation of iris images using visible wavelength face images 2011,		38

46	Incorporating color information for reliable palmprint authentication 2011,		3
45	Palmprint recognition using rank level fusion 2010 ,		13
44	Personal Identification from Iris Images Using Localized Radon Transform 2010,		12
43	Contactless palm vein identification using multiple representations 2010,		20
42	Human hand identification with 3D hand pose variations 2010,		6
41	Improved palmprint authentication using contactless imaging 2010,		21
40	. IEEE Transactions on Information Forensics and Security, 2010 , 5, 92-102	8	46
39	Improving Biometric Authentication Performance From the User Quality. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010 , 59, 730-735	5.2	40
38	Robust palmprint verification using 2D and 3D features. <i>Pattern Recognition</i> , 2010 , 43, 358-368	7.7	75
37	Comparison and combination of iris matchers for reliable personal authentication. <i>Pattern Recognition</i> , 2010 , 43, 1016-1026	7.7	207
36	USER AUTHENTICATION USING FUSION OF FACE AND PALMPRINT. <i>International Journal of Image and Graphics</i> , 2009 , 09, 251-270	0.5	6
35	Development of a New Cryptographic Construct Using Palmprint-Based Fuzzy Vault. <i>Eurasip Journal on Advances in Signal Processing</i> , 2009 , 2009,	1.9	30
34	Personal identification using finger knuckle orientation features. <i>Electronics Letters</i> , 2009 , 45, 1023	1.1	40
33	Personal Authentication Using Finger Knuckle Surface. <i>IEEE Transactions on Information Forensics and Security</i> , 2009 , 4, 98-110	8	148
32	On estimating performance indices for biometric identification. <i>Pattern Recognition</i> , 2009 , 42, 1803-18	1 5 .7	12
31	Human identification using KnuckleCodes 2009,		42
30	Combining 2D and 3D hand geometry features for biometric verification 2009 ,		23
29	Personal authentication using hand vein triangulation and knuckle shape. <i>IEEE Transactions on Image Processing</i> , 2009 , 18, 2127-36	8.7	199

(2006-2008)

28	Comments on "An Adaptive Multimodal Biometric Management Algorithm. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2008 , 38, 841-843	3
27	Micro power battery state-of-charge monitor. <i>IEEE Transactions on Consumer Electronics</i> , 2008 , 54, 623-6 3 .8	7
26	Incorporating Cohort Information for Reliable Palmprint Authentication 2008,	78
25	Incorporating user quality for performance improvement in hand identification 2008,	3
24	Comparison and combination of iris matchers for reliable personal identification 2008,	16
23	Online personal identification in night using multiple face representations 2008,	4
22	A new antispoofing approach for biometric devices. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2008 , 2, 328-37	77
21	A palmprint-based cryptosystem using double encryption 2008,	18
20	Personal authentication using hand vein triangulation 2008,	8
19	A New Method for Fingerprint Antispoofing using Pulse Oxiometry 2007,	11
18	Biometric Authentication using Finger-Back Surface 2007,	32
17	. IEEE Transactions on Information Forensics and Security, 2007 , 2, 181-187	38
16	2007,	3
15	Improving Iris Identification using User Quality and Cohort Information 2007,	2
14	A Novel Approach to Improve Biometric Recognition Using Rank Level Fusion 2007,	18
13	Ear authentication using Log-Gabor wavelets 2007,	21
12	. IEEE Transactions on Consumer Electronics, 2007 , 53, 1044-1052 4.8	13
11	INTEGRATING SHAPE AND TEXTURE FOR HAND VERIFICATION. <i>International Journal of Image and Graphics</i> , 2006 , 06, 101-113	6

10	Personal recognition using hand shape and texture. <i>IEEE Transactions on Image Processing</i> , 2006 , 15, 2454-61	8.7	181
9	Personal authentication using hand images. Pattern Recognition Letters, 2006, 27, 1478-1486	4.7	77
8	Personal authentication using multiple palmprint representation. Pattern Recognition, 2005, 38, 1695-1	7 , 0. 4	112
7	Palmprint authentication using multiple classifiers 2004,		9
6	Neural network based detection of local textile defects. Pattern Recognition, 2003, 36, 1645-1659	7.7	143
5	Personal Verification Using Palmprint and Hand Geometry Biometric. <i>Lecture Notes in Computer Science</i> , 2003 , 668-678	0.9	206
4	Automated inspection of textured web materials using real Gabor functions 2002, 4875, 298		
3	Defect detection in textured materials using Gabor filters. <i>IEEE Transactions on Industry Applications</i> , 2002 , 38, 425-440	4.3	275
2	Fabric defect segmentation using multichannel blob detectors. Optical Engineering, 2000, 39, 3176	1.1	53
1	Combining 2D and 3D hand geometry features for biometric verification		6