

# Ajay Kumar

## List of Publications by Citations

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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.

117  
papers

4,965  
citations

40  
h-index

68  
g-index

120  
ext. papers

6,003  
ext. citations

5.7  
avg. IF

6.6  
L-index

#	Paper	IF	Citations
117	Human identification using finger images. <i>IEEE Transactions on Image Processing</i> , <b>2012</b> , 21, 2228-44	8.7	338
116	Defect detection in textured materials using Gabor filters. <i>IEEE Transactions on Industry Applications</i> , <b>2002</b> , 38, 425-440	4.3	275
115	Comparison and combination of iris matchers for reliable personal authentication. <i>Pattern Recognition</i> , <b>2010</b> , 43, 1016-1026	7.7	207
114	Personal Verification Using Palmprint and Hand Geometry Biometric. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 668-678	0.9	206
113	Personal authentication using hand vein triangulation and knuckle shape. <i>IEEE Transactions on Image Processing</i> , <b>2009</b> , 18, 2127-36	8.7	199
112	Personal recognition using hand shape and texture. <i>IEEE Transactions on Image Processing</i> , <b>2006</b> , 15, 2454-61	8.7	181
111	Automated human identification using ear imaging. <i>Pattern Recognition</i> , <b>2012</b> , 45, 956-968	7.7	162
110	Human Identification Using Palm-Vein Images. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2011</b> , 6, 1259-1274	8	161
109	Personal Authentication Using Finger Knuckle Surface. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2009</b> , 4, 98-110	8	148
108	Neural network based detection of local textile defects. <i>Pattern Recognition</i> , <b>2003</b> , 36, 1645-1659	7.7	143
107	Personal authentication using multiple palmprint representation. <i>Pattern Recognition</i> , <b>2005</b> , 38, 1695-1704	7.7	112
106	Towards online iris and periocular recognition under relaxed imaging constraints. <i>IEEE Transactions on Image Processing</i> , <b>2013</b> , 22, 3751-65	8.7	101
105	Personal Identification Using Multibiometrics Rank-Level Fusion. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , <b>2011</b> , 41, 743-752		96
104	Unified framework for automated iris segmentation using distantly acquired face images. <i>IEEE Transactions on Image Processing</i> , <b>2012</b> , 21, 4068-79	8.7	88
103	A Unified Framework for Contactless Hand Verification. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2011</b> , 6, 1014-1027	8	78
102	Incorporating Cohort Information for Reliable Palmprint Authentication <b>2008</b> ,		78
101	A new antispoofing approach for biometric devices. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2008</b> , 2, 328-37	5.1	77

100	Personal authentication using hand images. <i>Pattern Recognition Letters</i> , <b>2006</b> , 27, 1478-1486	4.7	77
99	Robust palmprint verification using 2D and 3D features. <i>Pattern Recognition</i> , <b>2010</b> , 43, 358-368	7.7	75
98	Toward More Accurate Iris Recognition Using Cross-Spectral Matching. <i>IEEE Transactions on Image Processing</i> , <b>2017</b> , 26, 208-221	8.7	70
97	Accurate Iris Recognition at a Distance Using Stabilized Iris Encoding and Zernike Moments Phase Features. <i>IEEE Transactions on Image Processing</i> , <b>2014</b> , 23, 3962-3974	8.7	68
96	Recognizing disguised faces: human and machine evaluation. <i>PLoS ONE</i> , <b>2014</b> , 9, e99212	3.7	67
95	Robust ear identification using sparse representation of local texture descriptors. <i>Pattern Recognition</i> , <b>2013</b> , 46, 73-85	7.7	66
94	Biometric Recognition: An Overview. <i>The International Library of Ethics, Law and Technology</i> , <b>2012</b> , 49-79	0.5	65
93	An Accurate Iris Segmentation Framework Under Relaxed Imaging Constraints Using Total Variation Model <b>2015</b> ,		64
92	Accurate Periocular Recognition Under Less Constrained Environment Using Semantics-Assisted Convolutional Neural Network. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2017</b> , 12, 1017-1030	8	62
91	Towards More Accurate Iris Recognition Using Deeply Learned Spatially Corresponding Features <b>2017</b> ,		53
90	Fabric defect segmentation using multichannel blob detectors. <i>Optical Engineering</i> , <b>2000</b> , 39, 3176	1.1	53
89	Contactless and pose invariant biometric identification using hand surface. <i>IEEE Transactions on Image Processing</i> , <b>2011</b> , 20, 1415-24	8.7	51
88	Reliable ear identification using 2-D quadrature filters. <i>Pattern Recognition Letters</i> , <b>2012</b> , 33, 1870-1881	4.7	50
87	A 3D Feature Descriptor Recovered from a Single 2D Palmprint Image. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2016</b> , 38, 1272-9	13.3	46
86	. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2010</b> , 5, 92-102	8	46
85	Cross-spectral iris recognition using CNN and supervised discrete hashing. <i>Pattern Recognition</i> , <b>2019</b> , 86, 85-98	7.7	46
84	Finger vein identification using Convolutional Neural Network and supervised discrete hashing. <i>Pattern Recognition Letters</i> , <b>2019</b> , 119, 148-156	4.7	46
83	Improving Periocular Recognition by Explicit Attention to Critical Regions in Deep Neural Network. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2018</b> , 13, 2937-2952	8	43

82	Human identification using KnuckleCodes <b>2009</b> ,		42
81	Towards Contactless, Low-Cost and Accurate 3D Fingerprint Identification. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2015</b> , 37, 681-96	13.3	41
80	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> , <b>2016</b> , 11, 633-641	8	40
79	Personal identification using finger knuckle orientation features. <i>Electronics Letters</i> , <b>2009</b> , 45, 1023	1.1	40
78	Improving Biometric Authentication Performance From the User Quality. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2010</b> , 59, 730-735	5.2	40
77	Automated segmentation of iris images using visible wavelength face images <b>2011</b> ,		38
76	. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2007</b> , 2, 181-187	8	38
75	Matching Contactless and Contact-based Conventional Fingerprint Images for Biometrics Identification. <i>IEEE Transactions on Image Processing</i> , <b>2018</b> , 27, 2008-2021	8.7	37
74	Contactless and partial 3D fingerprint recognition using multi-view deep representation. <i>Pattern Recognition</i> , <b>2018</b> , 83, 314-327	7.7	35
73	A deep learning based unified framework to detect, segment and recognize irises using spatially corresponding features. <i>Pattern Recognition</i> , <b>2019</b> , 93, 546-557	7.7	34
72	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> , <b>2014</b> , 9, 1288-1298 <sup>8</sup>	8	33
71	Contactless fingerprint identification using level zero features <b>2011</b> ,		33
70	Toward More Accurate Iris Recognition Using Dilated Residual Features. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2019</b> , 14, 3233-3245	8	32
69	Biometric Authentication using Finger-Back Surface <b>2007</b> ,		32
68	Adaptive management of multimodal biometrics fusion using ant colony optimization. <i>Information Fusion</i> , <b>2016</b> , 32, 49-63	16.7	30
67	Towards Contactless, Low-Cost and Accurate 3D Fingerprint Identification <b>2013</b> ,		30
66	Development of a New Cryptographic Construct Using Palmprint-Based Fuzzy Vault. <i>Eurasip Journal on Advances in Signal Processing</i> , <b>2009</b> , 2009,	1.9	30
65	A CNN-Based Framework for Comparison of Contactless to Contact-Based Fingerprints. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2019</b> , 14, 662-676	8	28

64	Efficient and Accurate At-a-Distance Iris Recognition Using Geometric Key-Based Iris Encoding. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2014</b> , 9, 1518-1526	8	26
63	Combining 2D and 3D hand geometry features for biometric verification <b>2009</b> ,		23
62	Recognizing human faces under disguise and makeup <b>2016</b> ,		22
61	Recovering and matching minutiae patterns from finger knuckle images. <i>Pattern Recognition Letters</i> , <b>2015</b> , 68, 361-367	4-7	21
60	Can we use minor finger knuckle images to identify humans? <b>2012</b> ,		21
59	Improved palmprint authentication using contactless imaging <b>2010</b> ,		21
58	Ear authentication using Log-Gabor wavelets <b>2007</b> ,		21
57	Personal Identification Using Minor Knuckle Patterns From Palm Dorsal Surface. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2016</b> , 11, 2338-2348	8	20
56	Toward More Accurate Matching of Contactless Palmprint Images Under Less Constrained Environments. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2019</b> , 14, 34-47	8	20
55	Contactless palm vein identification using multiple representations <b>2010</b> ,		20
54	Contactless 3D Fingerprint Identification. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2018</b> ,	1.1	20
53	Finger Vein Identification Using Convolutional Neural Network and Supervised Discrete Hashing. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2017</b> , 109-132	1.1	18
52	A palmprint-based cryptosystem using double encryption <b>2008</b> ,		18
51	A Novel Approach to Improve Biometric Recognition Using Rank Level Fusion <b>2007</b> ,		18
50	Contactless Palmprint Identification Using Deeply Learned Residual Features. <i>IEEE Transactions on Biometrics, Behavior, and Identity Science</i> , <b>2020</b> , 2, 172-181	4-3	17
49	Iris recognition using quaternionic sparse orientation code (QSOC) <b>2012</b> ,		17
48	Periocular Recognition Using Unsupervised Convolutional RBM Feature Learning <b>2014</b> ,		16
47	Human identification from at-a-distance face images using sparse representation of local iris features <b>2012</b> ,		16

46	Comparison and combination of iris matchers for reliable personal identification <b>2008</b> ,		16
45	Tetrahedron Based Fast 3D Fingerprint Identification Using Colored LEDs Illumination. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2018</b> , 40, 3022-3033	13.3	15
44	Palmpoint recognition using rank level fusion <b>2010</b> ,		13
43	. <i>IEEE Transactions on Consumer Electronics</i> , <b>2007</b> , 53, 1044-1052	4.8	13
42	On matching cross-spectral periocular images for accurate biometrics identification <b>2016</b> ,		13
41	Personal Identification from Iris Images Using Localized Radon Transform <b>2010</b> ,		12
40	On estimating performance indices for biometric identification. <i>Pattern Recognition</i> , <b>2009</b> , 42, 1803-1815.	5.7	12
39	A New Method for Fingerprint Antispoofing using Pulse Oximetry <b>2007</b> ,		11
38	Contactless Biometric Identification Using 3D Finger Knuckle Patterns. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2020</b> , 42, 1868-1883	13.3	11
37	Adaptive and localized iris weight map for accurate iris recognition under less constrained environments <b>2013</b> ,		10
36	Can We Use Second Minor Finger Knuckle Patterns to Identify Humans? <b>2014</b> ,		10
35	Efficient iris segmentation using Grow-Cut algorithm for remotely acquired iris images <b>2012</b> ,		9
34	Palmpoint authentication using multiple classifiers <b>2004</b> ,		9
33	Integrating ocular and iris descriptors for fake iris image detection <b>2014</b> ,		8
32	Personal authentication using hand vein triangulation <b>2008</b> ,		8
31	Advancing Cross-Spectral Iris Recognition Research Using Bi-Spectral Imaging. <i>Advances in Intelligent Systems and Computing</i> , <b>2016</b> , 1-10	0.4	8
30	Periocular-Assisted Multi-Feature Collaboration for Dynamic Iris Recognition. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2021</b> , 16, 866-879	8	8
29	Multi-Siamese networks to accurately match contactless to contact-based fingerprint images <b>2017</b> ,		7

28	Micro power battery state-of-charge monitor. <i>IEEE Transactions on Consumer Electronics</i> , <b>2008</b> , 54, 623-628	4.8	7
27	Numerical Reflectance Compensation for Non-Lambertian Photometric Stereo. <i>IEEE Transactions on Image Processing</i> , <b>2019</b> , 28, 3177-3191	8.7	6
26	Towards More Accurate Contactless Fingerprint Minutiae Extraction and Pose-Invariant Matching. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2020</b> , 1-1	8	6
25	Toward Pose Invariant and Completely Contactless Finger Knuckle Recognition. <i>IEEE Transactions on Biometrics, Behavior, and Identity Science</i> , <b>2019</b> , 1, 201-209	4.3	6
24	Human hand identification with 3D hand pose variations <b>2010</b> ,		6
23	USER AUTHENTICATION USING FUSION OF FACE AND PALMPRINT. <i>International Journal of Image and Graphics</i> , <b>2009</b> , 09, 251-270	0.5	6
22	INTEGRATING SHAPE AND TEXTURE FOR HAND VERIFICATION. <i>International Journal of Image and Graphics</i> , <b>2006</b> , 06, 101-113	0.5	6
21	Combining 2D and 3D hand geometry features for biometric verification		6
20	Online personal identification in night using multiple face representations <b>2008</b> ,		4
19	Incorporating color information for reliable palmprint authentication <b>2011</b> ,		3
18	Comments on "An Adaptive Multimodal Biometric Management Algorithm. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , <b>2008</b> , 38, 841-843		3
17	Incorporating user quality for performance improvement in hand identification <b>2008</b> ,		3
16	<b>2007</b> ,		3
15	Revisiting Outlier Rejection Approach for Non-Lambertian Photometric Stereo. <i>IEEE Transactions on Image Processing</i> , <b>2018</b> ,	8.7	3
14	Deep Feature Collaboration for Challenging 3D Finger Knuckle Identification. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2021</b> , 16, 1158-1173	8	3
13	Improving Iris Identification using User Quality and Cohort Information <b>2007</b> ,		2
12	Advancing Surface Feature Encoding and Matching for More Accurate 3D Biometric Recognition <b>2018</b> ,		2
11	Adaptive Security for Human Surveillance Using Multimodal Open Set Biometric Recognition <b>2014</b> ,		1

10	Efficient and Accurate 3D Finger Knuckle Matching using Surface Key Points. <i>IEEE Transactions on Image Processing</i> , <b>2020</b> , PP,	8.7	1
9	Accurate 3D Finger Knuckle Recognition Using Auto-Generated Similarity Functions. <i>IEEE Transactions on Biometrics, Behavior, and Identity Science</i> , <b>2021</b> , 3, 203-213	4.3	1
8	Minutiae Attention Network With Reciprocal Distance Loss for Contactless to Contact-Based Fingerprint Identification. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2021</b> , 16, 3299-3311	8	1
7	Mycobacterium tuberculosis glyceraldehyde-3-phosphate dehydrogenase plays a dual role-As an adhesin and as a receptor for plasmin(ogen). <i>Cellular Microbiology</i> , <b>2021</b> , 23, e13311	3.9	1
6	Automated inspection of textured web materials using real Gabor functions <b>2002</b> , 4875, 298		
5	3D Fingerprint Image Preprocessing and Enhancement. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2018</b> , 63-69	1.1	
4	3D Fingerprint Acquisition Using Coloured Photometric Stereo. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2018</b> , 53-62	1.1	
3	Representation, Recovery and Matching of 3D Minutiae Template. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2018</b> , 71-94	1.1	
2	Other Methods for 3D Fingerprint Matching. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2018</b> , 95-108	1.1	
1	3D Fingerprint Image Acquisition Methods. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2018</b> , 17-27	1.1	