

Christoph Busch

List of Publications by Year in descending order

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425
papers

7,775
citations

156536

32
h-index

162838

57
g-index

444
all docs

444
docs citations

444
times ranked

3730
citing authors

#	ARTICLE	IF	CITATIONS
1	Fun Selfie Filters in Face Recognition: Impact Assessment and Removal. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2023, 5, 91-104.	3.8	2
2	Digital Face Manipulation in Biometric Systems. Advances in Computer Vision and Pattern Recognition, 2022, , 27-43.	0.9	5
3	Future Trends in Digital Face Manipulation and Detection. Advances in Computer Vision and Pattern Recognition, 2022, , 463-482.	0.9	3
4	Face Image Quality Assessment: A Literature Survey. ACM Computing Surveys, 2022, 54, 1-49.	16.1	36
5	Signal-level fusion for indexing and retrieval of facial biometric data. IET Biometrics, 2022, 11, 141-156.	1.6	1
6	Face Morphing Attack Detection Methods. Advances in Computer Vision and Pattern Recognition, 2022, , 331-349.	0.9	3
7	Iris Liveness Detection Using a Cascade of Dedicated Deep Learning Networks. IEEE Transactions on Information Forensics and Security, 2022, 17, 42-52.	4.5	15
8	Adversarial Attacks on Face Recognition Systems. Advances in Computer Vision and Pattern Recognition, 2022, , 139-161.	0.9	7
9	Mobile Contactless Fingerprint Recognition: Implementation, Performance and Usability Aspects. Sensors, 2022, 22, 792.	2.1	18
10	Algorithmic Fairness in Face Morphing Attack Detection. , 2022, , .		3
11	E2F-GAN: Eyes-to-Face Inpainting via Edge-Aware Coarse-to-Fine GANs. IEEE Access, 2022, 10, 32406-32417.	2.6	8
12	Differential Privacy Preservation in Robust Continual Learning. IEEE Access, 2022, 10, 24273-24287.	2.6	4
13	Psychophysical Evaluation of Human Performance in Detecting Digital Face Image Manipulations. IEEE Access, 2022, 10, 31359-31376.	2.6	6
14	Reliable detection of doppelgangers based on deep face representations. IET Biometrics, 2022, 11, 215-224.	1.6	2
15	SynColFinGer: Synthetic contactless fingerprint generator. Pattern Recognition Letters, 2022, 157, 127-134.	2.6	5
16	Cross-sensor periocular biometrics in a global pandemic: Comparative benchmark and novel multialgorithmic approach. Information Fusion, 2022, 83-84, 110-130.	11.7	10
17	An Attack on Facial Soft-Biometric Privacy Enhancement. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2022, 4, 263-275.	3.8	2
18	Selfie Periocular Verification Using an Efficient Super-Resolution Approach. IEEE Access, 2022, 10, 67573-67589.	2.6	3

#	ARTICLE	IF	CITATIONS
19	Dual-Stream Temporal Convolutional Neural Network for Voice Presentation Attack Detection. , 2022, , .		0
20	Morphing Attack Potential. , 2022, , .		5
21	Are average Faces Master Faces?. , 2022, , .		1
22	Improved Homomorphically Encrypted Biometric Identification Using Coefficient Packing. , 2022, , .		5
23	Analysis of the synthetic periocular iris images for robust Presentation Attacks Detection algorithms. IET Biometrics, 2022, 11, 343-354.	1.6	2
24	Low Visual Distortion and Robust Morphing Attacks Based on Partial Face Image Manipulation. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2021, 3, 72-88.	3.8	18
25	Deep Face Age Progression: A Survey. IEEE Access, 2021, 9, 83376-83393.	2.6	10
26	Morphing Attack Detection-Database, Evaluation Platform, and Benchmarking. IEEE Transactions on Information Forensics and Security, 2021, 16, 4336-4351.	4.5	33
27	Fingerprint Presentation Attack Detection Based on Local Features Encoding for Unknown Attacks. IEEE Access, 2021, 9, 5806-5820.	2.6	30
28	Unsupervised Real-World Super-resolution Using Variational Auto-encoder and Generative Adversarial Network. Lecture Notes in Computer Science, 2021, , 703-718.	1.0	1
29	Semantic Segmentation of Periocular Near-Infra-Red Eye Images Under Alcohol Effects. IEEE Access, 2021, 9, 109732-109744.	2.6	9
30	Direct Unsupervised Super-Resolution Using Generative Adversarial Network (DUS-GAN) for Real-World Data. IEEE Transactions on Image Processing, 2021, 30, 8251-8264.	6.0	17
31	Deep Learning-Based Semantic Segmentation for Touchless Fingerprint Recognition. Lecture Notes in Computer Science, 2021, , 154-168.	1.0	6
32	Audio-Visual Biometric Recognition and Presentation Attack Detection: A Comprehensive Survey. IEEE Access, 2021, 9, 37431-37455.	2.6	17
33	Local feature encoding for unknown presentation attack detection: An analysis of different local feature descriptors. IET Biometrics, 2021, 10, 374-391.	1.6	4
34	An overview of touchless 2D fingerprint recognition. Eurasip Journal on Image and Video Processing, 2021, 2021, .	1.7	43
35	Effects of image compression on face image manipulation detection: A case study on facial retouching. IET Biometrics, 2021, 10, 342-355.	1.6	4
36	On the generalisation capabilities of fingerprint presentation attack detection methods in the short wave infrared domain. IET Biometrics, 2021, 10, 359-373.	1.6	4

#	ARTICLE	IF	CITATIONS
37	E-ComSupResNet: Enhanced Face Super-Resolution Through Compact Network. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2021, 3, 166-179.	3.8	6
38	Impact of facial tattoos and paintings on face recognition systems. IET Biometrics, 2021, 10, 706.	1.6	5
39	Face Morphing Attacks: A Threat to eLearning?. , 2021, , .		2
40	Anomaly Detection With Convolutional Autoencoders for Fingerprint Presentation Attack Detection. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2021, 3, 190-202.	3.8	19
41	On the Applicability of Synthetic Data for Face Recognition. , 2021, , .		14
42	On the generalisation capabilities of Fisher vectorâ€based face presentation attack detection. IET Biometrics, 2021, 10, 480-496.	1.6	8
43	Thermal Image Super-Resolution Challenge - PBVS 2021. , 2021, , .		5
44	Channel Split Convolutional Neural Network (ChaSNet) for Thermal Image Super-Resolution. , 2021, , .		16
45	MIPGANâ€Generating Strong and High Quality Morphing Attacks Using Identity Prior Driven GAN. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2021, 3, 365-383.	3.8	49
46	On the Effectiveness of Impedance-Based Fingerprint Presentation Attack Detection. Sensors, 2021, 21, 5686.	2.1	6
47	Deep learning-based single image face depth data enhancement. Computer Vision and Image Understanding, 2021, 210, 103247.	3.0	14
48	Face Morphing Attack Generation and Detection: A Comprehensive Survey. IEEE Transactions on Technology and Society, 2021, 2, 128-145.	2.4	54
49	Feature Fusion Methods for Indexing and Retrieval of Biometric Data: Application to Face Recognition With Privacy Protection. IEEE Access, 2021, 9, 139361-139378.	2.6	12
50	Multilingual Audio-Visual Smartphone Dataset And Evaluation. IEEE Access, 2021, , 1-1.	2.6	0
51	Single Morphing Attack Detection Using Feature Selection and Visualization Based on Mutual Information. IEEE Access, 2021, 9, 167628-167641.	2.6	9
52	Morphing Attack Detection: A Fusion Approach. , 2021, , .		1
53	Biometric Presentation Attack Detection: Beyond the Visible Spectrum. IEEE Transactions on Information Forensics and Security, 2020, 15, 1261-1275.	4.5	65
54	Plastic Surgery: An Obstacle for Deep Face Recognition?. , 2020, , .		4

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55	Collaborative representation of blur invariant deep sparse features for periocular recognition from smartphones. <i>Image and Vision Computing</i> , 2020, 101, 103979.	2.7	14
56	TherISuRNet - A Computationally Efficient Thermal Image Super-Resolution Network. , 2020, , .		23
57	Thermal Image Super-Resolution Challenge - PBVS 2020. , 2020, , .		12
58	Unsupervised Single Image Super-Resolution Network (USISResNet) for Real-World Data Using Generative Adversarial Network. , 2020, , .		22
59	Detecting Morphed Face Attacks Using Residual Noise from Deep Multi-scale Context Aggregation Network. , 2020, , .		22
60	Single Image Face Morphing Attack Detection Using Ensemble of Features. , 2020, , .		18
61	Deep Face Representations for Differential Morphing Attack Detection. <i>IEEE Transactions on Information Forensics and Security</i> , 2020, 15, 3625-3639.	4.5	68
62	Can GAN Generated Morphs Threaten Face Recognition Systems Equally as Landmark Based Morphs? - Vulnerability and Detection. , 2020, , .		40
63	Differential Detection of Facial Retouching: A Multi-Biometric Approach. <i>IEEE Access</i> , 2020, 8, 106373-106385.	2.6	19
64	Multi-Biometric Identification With Cascading Database Filtering. <i>IEEE Transactions on Biometrics, Behavior, and Identity Science</i> , 2020, 2, 210-222.	3.8	11
65	PRNU-based detection of facial retouching. <i>IET Biometrics</i> , 2020, 9, 154-164.	1.6	29
66	Demographic Bias in Biometrics: A Survey on an Emerging Challenge. <i>IEEE Transactions on Technology and Society</i> , 2020, 1, 89-103.	2.4	119
67	ComSupResNet: A Compact Super-Resolution Network for Low-Resolution Face Images. , 2020, , .		1
68	Compact and Mobile Full-Field Optical Coherence Tomography Sensor for Subsurface Fingerprint Imaging. <i>IEEE Access</i> , 2020, 8, 15194-15204.	2.6	6
69	Presentation Attack Detection for Finger Recognition. <i>Advances in Computer Vision and Pattern Recognition</i> , 2020, , 435-463.	0.9	13
70	Towards Measuring the Amount of Discriminatory Information in Finger Vein Biometric Characteristics Using a Relative Entropy Estimator. <i>Advances in Computer Vision and Pattern Recognition</i> , 2020, , 507-525.	0.9	3
71	Efficient Identification in Large-Scale Vein Recognition Systems Using Spectral Minutiae Representations. <i>Advances in Computer Vision and Pattern Recognition</i> , 2020, , 225-259.	0.9	1
72	Fused Spectral Features in Kernel Weighted Collaborative Representation for Gender Classification Using Ocular Images. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 131-143.	0.5	2

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73	Detecting Face Morphing Attacks with Collaborative Representation of Steerable Features. Advances in Intelligent Systems and Computing, 2020, , 255-265.	0.5	7
74	Makeup Presentation Attacks: Review and Detection Performance Benchmark. IEEE Access, 2020, 8, 224958-224973.	2.6	13
75	Analysing the Performance of LSTMs and CNNs on 1310 nm Laser Data for Fingerprint Presentation Attack Detection. , 2020, , .		0
76	On the Influence of Ageing on Face Morph Attacks: Vulnerability and Detection. , 2020, , .		10
77	Face morph detection for unknown morphing algorithms and image sources: a multi-scale block local binary pattern fusion approach. IET Biometrics, 2020, 9, 278-289.	1.6	15
78	Finding the Suitable Doppelgänger for a Face Morphing Attack. , 2020, , .		6
79	SIFT-based iris recognition revisited: prerequisites, advantages and improvements. Pattern Analysis and Applications, 2019, 22, 889-906.	3.1	8
80	Turning a Vulnerability into an Asset: Accelerating Facial Identification with Morphing. , 2019, , .		3
81	Towards Reducing the Error Rates in Template Protection for Iris Recognition Using Custom Cuckoo Filters. , 2019, , .		5
82	Light Fields for Face Analysis. Sensors, 2019, 19, 2687.	2.1	11
83	Towards making Morphing Attack Detection robust using hybrid Scale-Space Colour Texture Features. , 2019, , .		23
84	Subjective Evaluation of Media Consumer Vulnerability to Fake Audiovisual Content. , 2019, , .		11
85	Privacy-preserving PLDA speaker verification using outsourced secure computation. Speech Communication, 2019, 114, 60-71.	1.6	9
86	Impact and Detection of Facial Beautification in Face Recognition: An Overview. IEEE Access, 2019, 7, 152667-152678.	2.6	46
87	Detection of Face Morphing Attacks Based on PRNU Analysis. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2019, 1, 302-317.	3.8	67
88	Subjective Versus Objective Face Image Quality Evaluation For Face Recognition. , 2019, , .		6
89	Empirical Evaluation of Texture-Based Print and Contact Lens Iris Presentation Attack Detection Methods. , 2019, , .		1
90	Custom silicone Face Masks: Vulnerability of Commercial Face Recognition Systems & Presentation Attack Detection. , 2019, , .		18

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91	Standards for Biometric Presentation Attack Detection. Advances in Computer Vision and Pattern Recognition, 2019, , 503-514.	0.9	4
92	Preserving privacy in speaker and speech characterisation. Computer Speech and Language, 2019, 58, 441-480.	2.9	59
93	Design and Development of Low-Cost Sensor to Capture Ventral and Dorsal Finger Vein for Biometric Authentication. IEEE Sensors Journal, 2019, 19, 6102-6111.	2.4	19
94	Face Recognition Systems Under Morphing Attacks: A Survey. IEEE Access, 2019, 7, 23012-23026.	2.6	143
95	Anchored Kernel Hashing for Cancelable Template Protection for Cross-Spectral Periocular Data. Lecture Notes in Computer Science, 2019, , 103-116.	1.0	0
96	A New Multi-spectral Iris Acquisition Sensor for Biometric Verification and Presentation Attack Detection. , 2019, , .		3
97	Detecting Finger-Vein Presentation Attacks Using 3D Shape & Diffuse Reflectance Decomposition. , 2019, , .		3
98	Morton Filters for Iris Template Protection - An Incremental and Superior Approach Over Bloom Filters. , 2019, , .		2
99	Template Protection based on Homomorphic Encryption: Computationally Efficient Application to Iris-Biometric Verification and Identification. , 2019, , .		13
100	Visible to Band Gender Classification: An Extensive Experimental Evaluation Based on Multi-spectral Imaging. , 2019, , .		2
101	Cross-Spectral Periocular Recognition by Cascaded Spectral Image Transformation. , 2019, , .		9
102	Subsurface and Layer Intertwined Template Protection Using Inherent Properties of Full-Field Optical Coherence Tomography Fingerprint Imaging. , 2019, , .		0
103	Obtaining Stable Iris Codes Exploiting Low-Rank Tensor Space and Spatial Structure Aware Refinement for Better Iris Recognition. , 2019, , .		3
104	On the Impact of Different Fabrication Materials on Fingerprint Presentation Attack Detection. , 2019, , .		7
105	Multi-Modal Fingerprint Presentation Attack Detection: Analysing the Surface and the Inside. , 2019, , .		12
106	Robust Morph-Detection at Automated Border Control Gate Using Deep Decomposed 3D Shape & Diffuse Reflectance. , 2019, , .		10
107	Morphed Face Detection Based on Deep Color Residual Noise. , 2019, , .		25
108	Relevant features for gender classification in NIR periocular images. IET Biometrics, 2019, 8, 340-350.	1.6	10

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109	A Study of Hand-Crafted and Naturally Learned Features for Fingerprint Presentation Attack Detection. <i>Advances in Computer Vision and Pattern Recognition</i> , 2019, , 33-48.	0.9	5
110	On the Detection of GAN-Based Face Morphs Using Established Morph Detectors. <i>Lecture Notes in Computer Science</i> , 2019, , 345-356.	1.0	15
111	Computational workload in biometric identification systems: an overview. <i>IET Biometrics</i> , 2019, 8, 351-368.	1.6	25
112	Biometric Template Protection on Smartphones Using the Manifold-Structure Preserving Feature Representation. <i>Advances in Computer Vision and Pattern Recognition</i> , 2019, , 299-312.	0.9	2
113	Presentation Attack Detection Methods for Face Recognition Systems. <i>ACM Computing Surveys</i> , 2018, 50, 1-37.	16.1	199
114	Robust gender classification using extended multi-spectral imaging by exploring the spectral angle mapper. , 2018, , .		4
115	General Framework to Evaluate Unlinkability in Biometric Template Protection Systems. <i>IEEE Transactions on Information Forensics and Security</i> , 2018, 13, 1406-1420.	4.5	142
116	Survey on the impact of fingerprint image enhancement. <i>IET Biometrics</i> , 2018, 7, 102-115.	1.6	26
117	Multi-biometric template protection based on bloom filters. <i>Information Fusion</i> , 2018, 42, 37-50.	11.7	98
118	Learning Neighbourhoods for Fingerprint Indexing. , 2018, , .		0
119	PRNU Variance Analysis for Morphed Face Image Detection. , 2018, , .		23
120	Visible Wavelength Iris Segmentation: A Multi-Class Approach using Fully Convolutional Neuronal Networks. , 2018, , .		10
121	Detecting Disguise Attacks on Multi-spectral Face Recognition Through Spectral Signatures. , 2018, , .		6
122	Database Binning and Retrieval in Multi-Fingerprint Identification Systems. , 2018, , .		3
123	Improved Fingerprint Verification System Using Multi-scale Second Order Local Structures. , 2018, , .		4
124	Unsupervised Learning of Fingerprint Rotations. , 2018, , .		6
125	Estimating the Data Origin of Fingerprint Samples. , 2018, , .		0
126	Image Quality and Texture-Based Features for Reliable Textured Contact Lens Detection. , 2018, , .		2

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127	Towards Multi-modal Finger Presentation Attack Detection. , 2018, , .		10
128	Presentation Attack Detection for Smartphone Based Fingerphoto Recognition Using Second Order Local Structures. , 2018, , .		8
129	An Empirical Evaluation of Deep Architectures on Generalization of Smartphone-based Face Image Quality Assessment. , 2018, , .		4
130	Sex-Prediction from Periocular Images Across Multiple Sensors and Spectra. , 2018, , .		2
131	Iris Recognition in Visible Wavelength: Impact and Automated Detection of Classes. , 2018, , .		4
132	Subjective Logic Based Score Level Fusion: Combining Faces and Fingerprints. , 2018, , .		4
133	A low-cost Multi-Fingervein Verification System. , 2018, , .		3
134	Fingerprint Presentation Attack Detection using Laser Speckle Contrast Imaging. , 2018, , .		20
135	Towards Fingerprint Presentation Attack Detection Based on Convolutional Neural Networks and Short Wave Infrared Imaging. , 2018, , .		21
136	Fake Face Detection Methods: Can They Be Generalized?. , 2018, , .		68
137	Privacy-Preserving Indexing of Iris-Codes with Cancelable Bloom Filter-based Search Structures. , 2018, , .		14
138	Towards Protected and Cancelable Multi-Spectral Face Templates Using Feature Fusion and Kernalized Hashing. , 2018, , .		9
139	Biometric Transaction Authentication using Smartphones. , 2018, , .		3
140	Manifold-Structure Preserving Biometric Templates - A Preliminary Study On Fully Cancelable Smartphone Biometric Templates. , 2018, , .		4
141	Benchmarking Binarisation Schemes for Deep Face Templates. , 2018, , .		14
142	Score Fusion Strategies in Single-Iris Dual-Probe Recognition Systems. , 2018, , .		0
143	Fusion of Multi-Scale Local Phase Quantization Features for Face Presentation Attack Detection. , 2018, , .		5
144	Improved ear verification after surgery - An approach based on collaborative representation of locally competitive features. Pattern Recognition, 2018, 83, 416-429.	5.1	12

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145	Detecting Morphed Face Images Using Facial Landmarks. Lecture Notes in Computer Science, 2018, , 444-452.	1.0	32
146	Transgender face recognition with off-the-shelf pre-trained CNNs: A comprehensive study. , 2018, , .		1
147	Towards Detection of Morphed Face Images in Electronic Travel Documents. , 2018, , .		51
148	Performance variation of morphed face image detection algorithms across different datasets. , 2018, , .		22
149	A Taxonomy of Audiovisual Fake Multimedia Content Creation Technology. , 2018, , .		8
150	Multi-spectral Imaging for Robust Ocular Biometrics. , 2018, , .		9
151	PRNU-based detection of morphed face images. , 2018, , .		40
152	Multi-spectral Iris Segmentation in Visible Wavelengths. , 2018, , .		3
153	Multi-sample Compression of Iris Images Using High Efficiency Video Coding. , 2018, , .		2
154	Predicting the vulnerability of biometric systems to attacks based on morphed biometric information. IET Biometrics, 2018, 7, 333-341.	1.6	11
155	Detection of Glasses in Near-Infrared Ocular Images. , 2018, , .		10
156	Verifying the Newborns without Infection Risks Using Contactless Palmprints. , 2018, , .		18
157	Bloom filter-based search structures for indexing and retrieving iris-codes. IET Biometrics, 2018, 7, 260-268.	1.6	13
158	Morph Deterction from Single Face Image. , 2018, , .		25
159	Methods for accuracy-preserving acceleration of large-scale comparisons in CPU-based iris recognition systems. IET Biometrics, 2018, 7, 356-364.	1.6	2
160	Fingervein Presentation Attack Detection Using Transferable Features from Deep Convolution Neural Networks. , 2018, , 295-305.		2
161	Disguise Face Recognition Based On Spectral Imaging. , 2018, , .		0
162	Biometric template protection based on Bloom filters and honey templates. IET Biometrics, 2017, 6, 19-26.	1.6	13

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163	Multi-biometric Template Protection on Smartphones: An Approach Based on Binarized Statistical Features and Bloom Filters. Lecture Notes in Computer Science, 2017, , 385-392.	1.0	2
164	On the vulnerability of extended Multispectral face recognition systems towards presentation attacks. , 2017, , .		29
165	ContlensNet: Robust Iris Contact Lens Detection Using Deep Convolutional Neural Networks. , 2017, , .		39
166	Is your biometric system robust to morphing attacks?. , 2017, , .		26
167	Feature level fused templates for multi-biometric system on smartphones. , 2017, , .		4
168	Transferable deep convolutional neural network features for fingervein presentation attack detection. , 2017, , .		22
169	On the vulnerability of face recognition systems towards morphed face attacks. , 2017, , .		79
170	Assessing face image quality for smartphone based face recognition system. , 2017, , .		31
171	Combining multiple iris texture features for unconstrained recognition in visible wavelengths. , 2017, , .		1
172	Multi-patch deep sparse histograms for iris recognition in visible spectrum using collaborative subspace for robust verification. Pattern Recognition Letters, 2017, 91, 27-36.	2.6	21
173	Extended multispectral face presentation attack detection: An approach based on fusing information from individual spectral bands. , 2017, , .		12
174	Enhancing Breeder Document Long-Term Security Using Blockchain Technology. , 2017, , .		27
175	Face Presentation Attack Detection by Exploring Spectral Signatures. , 2017, , .		9
176	Robust Verification With Subsurface Fingerprint Recognition Using Full Field Optical Coherence Tomography. , 2017, , .		12
177	Extended Spectral to Visible Comparison Based on Spectral Band Selection Method for Robust Face Recognition. , 2017, , .		2
178	Extended multi-spectral imaging for gender classification based on image set. , 2017, , .		3
179	Band level fusion using quaternion representation for extended multi-spectral face recognition. , 2017, , .		3
180	Biometric Systems under Morphing Attacks: Assessment of Morphing Techniques and Vulnerability Reporting. , 2017, , .		74

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181	Sic-Gen: A Synthetic Iris-Code Generator. , 2017, , .		4
182	Scale-level score fusion of steered pyramid features for cross-spectral periocular verification. , 2017, , .		7
183	Transferable Deep-CNN Features for Detecting Digital and Print-Scanned Morphed Face Images. , 2017, , .		97
184	Multi-iris indexing and retrieval: Fusion strategies for bloom filter-based search structures. , 2017, , .		4
185	Improvement of Iris Recognition Based on Iris-Code Bit-Error Pattern Analysis. , 2017, , .		2
186	Intrinsic Limitations of Fingerprint Orientation Estimation. , 2017, , .		1
187	Fusing Biometric Scores Using Subjective Logic for Gait Recognition on Smartphone. , 2017, , .		3
188	Making Likelihood Ratios Digestible for Cross-Application Performance Assessment. IEEE Signal Processing Letters, 2017, 24, 1552-1556.	2.1	5
189	Deep Quality-Informed Score Normalization for Privacy-Friendly Speaker Recognition in Unconstrained Environments. , 2017, , .		0
190	Robust face presentation attack detection on smartphones : An approach based on variable focus. , 2017, , .		2
191	On the feasibility of creating morphed iris-codes. , 2017, , .		20
192	Minutia-based enhancement of fingerprint samples. , 2017, , .		2
193	Log-likelihood score level fusion for improved cross-sensor smartphone periocular recognition. , 2017, , .		2
194	Biometrie symmetry: Implications on template protection. , 2017, , .		1
195	Collaborative representation of Grassmann manifold projection metric for robust multi-spectral face recognition. , 2017, , .		1
196	Deep expectation for estimation of fingerprint orientation fields. , 2017, , .		12
197	Towards pre-alignment of near-infrared iris images. , 2017, , .		3
198	Face morphing versus face averaging: Vulnerability and detection. , 2017, , .		61

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199	Cross-eyed 2017: Cross-spectral iris/periocular recognition competition. , 2017, , .		27
200	Robust Gender Classification Using Multi-Spectral Imaging. , 2017, , .		5
201	Altered Fingerprint Detection. Advances in Computer Vision and Pattern Recognition, 2017, , 85-123.	0.9	6
202	ConvNet Regression for Fingerprint Orientations. Lecture Notes in Computer Science, 2017, , 325-336.	1.0	9
203	Collaborative Representation of Statistically Independent Filtersâ€™ Response: An Application to Face Recognition Under Illicit Drug Abuse Alterations. Lecture Notes in Computer Science, 2017, , 448-458.	1.0	1
204	Mutual Information Based Multispectral Image Fusion for Improved Face Recognition. , 2016, , .		5
205	Presentation Attack Detection in Face Biometric Systems Using Raw Sensor Data from Smartphones. , 2016, , .		8
206	Unlinkable improved multi-biometric iris fuzzy vault. Eurasip Journal on Information Security, 2016, 2016, .	2.2	20
207	Towards PLDA-RBM based speaker recognition in mobile environment: Designing stacked/deep PLDA-RBM systems. , 2016, , .		2
208	TripleA: Accelerated accuracy-preserving alignment for iris-codes. , 2016, , .		7
209	Multi-biometric template protection â€™ A security analysis of binarized statistical features for bloom filters on smartphones. , 2016, , .		10
210	Learning deeply coupled autoencoders for smartphone based robust periocular verification. , 2016, , .		29
211	A Fingerprint Indexing Algorithm on Encrypted Domain. , 2016, , .		4
212	Detecting morphed face images. , 2016, , .		85
213	Cross-Eyed - Cross-Spectral Iris/Periocular Recognition Database and Competition. , 2016, , .		37
214	Cross-spectrum periocular authentication for NIR and visible images using bank of statistical filters. , 2016, , .		10
215	Face presentation attack detection across spectrum using time-frequency descriptors of maximal response in Laplacian scale-space. , 2016, , .		6
216	De-convolutional auto-encoder for enhancement of fingerprint samples. , 2016, , .		15

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217	Efficient BSIF-based near-infrared iris recognition. , 2016, , .		6
218	Color Adaptive Quantized Patterns for Presentation Attack Detection in Ocular Biometric Systems. , 2016, , .		9
219	Unlinkable and irreversible biometric template protection based on bloom filters. Information Sciences, 2016, 370-371, 18-32.	4.0	84
220	Influence of cataract surgery on iris recognition: A preliminary study. , 2016, , .		5
221	Biometric Authentication Protocols on Smartphones. , 2016, , .		15
222	Effects of image compression on ear biometrics. IET Biometrics, 2016, 5, 252-261.	1.6	8
223	Impact of Drug Abuse on Face Recognition Systems. , 2016, , .		4
224	Biometric recognition of surgically altered periocular region: A comprehensive study. , 2016, , .		3
225	A low cost wrist vein sensor for biometric authentication. , 2016, , .		18
226	The Influence of Fingerprint Image Degradations on the Performance of Biometric System and Quality Assessment. , 2016, , .		9
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