Thirimachos Bourlai

List of Publications by Year
in descending order

85 papers	1,214 citations	687220 13 h-index	552653 26 g-index
86 all docs	86 docs citations	86 times ranked	888 citing authors

#	Article	IF	Citations
1	The Multiscenario Multienvironment BioSecure Multimodal Database (BMDB). IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 1097-1111.	9.7	176
2	Benchmarking Quality-Dependent and Cost-Sensitive Score-Level Multimodal Biometric Fusion Algorithms. IEEE Transactions on Information Forensics and Security, 2009, 4, 849-866.	4.5	77
3	Quality-Based Score Normalization With Device Qualitative Information for Multimodal Biometric Fusion. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2010, 40, 539-554.	3.4	60
4	Design and evaluation of photometric image quality measures for effective face recognition. IET Biometrics, 2014, 3, 314-324.	1.6	58
5	Adversarial Machine Learning in Malware Detection: Arms Race between Evasion Attack and Defense. , 2017, , .		56
6	A multimodal biometric test bed for quality-dependent, cost-sensitive and client-specific score-level fusion algorithms. Pattern Recognition, 2010, 43, 1094-1105.	5.1	55
7	A Novel Approach for ECG-Based Human Identification Using Spectral Correlation and Deep Learning. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2020, 2, 1-14.	3.8	46
8	Cross-Spectral Face Verification in the Short Wave Infrared (SWIR) Band. , 2010, , .		45
9	Multi-spectral face recognition: Identification of people in difficult environments. , 2012, , .		39
10	A study on using mid-wave infrared images for face recognition. , 2012, , .		32
11	Restoring Degraded Face Images: A Case Study in Matching Faxed, Printed, and Scanned Photos. IEEE Transactions on Information Forensics and Security, 2011, 6, 371-384.	4.5	31
12	Gender and ethnicity classification using deep learning in heterogeneous face recognition. , 2016, , .		29
13	Can facial metrology predict gender?. , 2011, , .		28
14	On ear-based human identification in the mid-wave infrared spectrum. Image and Vision Computing, 2013, 31, 640-648.	2.7	27
15	Use of Thermal Imagery for Estimation of Core Body Temperature During Precooling, Exertion, and Recovery in Wildland Firefighter Protective Clothing. Prehospital Emergency Care, 2012, 16, 390-399.	1.0	25
16	Cross-spectral face recognition in heterogeneous environments: A case study on matching visible to short-wave infrared imagery. , 2011, , .		22
17	ECG-based Human Authentication using High-level Spectro-temporal Signal Features. , 2018, , .		21
18	The Human-Robot Cloud: Situated collective intelligence on demand. , 2012, , .		20

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19	Improving Biometric Device Interoperability by Likelihood Ratio-based Quality Dependent Score Normalization. , 2007, , .		18
20	A coupled encoder–decoder network for joint face detection and landmark localization. Image and Vision Computing, 2019, 87, 37-46.	2.7	18
21	Eye detection in the Middle-Wave Infrared spectrum: Towards recognition in the dark. , 2011, , .		17
22	Securing multimodal biometric data through watermarking and steganography. , 2013, , .		17
23	Multispectral Eye Detection: A Preliminary Study. , 2010, , .		16
24	Accurate eye localization in the Short Waved Infrared Spectrum through summation range filters. Computer Vision and Image Understanding, 2015, 139, 59-72.	3.0	16
25	On designing a SWIR multi-wavelength facial-based acquisition system. Proceedings of SPIE, 2012, , .	0.8	14
26	Face recognition outside the visible spectrum. Image and Vision Computing, 2016, 55, 14-17.	2.7	14
27	Holistic and partial face recognition in the MWIR Band using manual and automatic detection of face-based features. , 2012, , .		13
28	Minimizing the impact of low interoperability between optical fingerprints sensors. , 2013, , .		13
29	Pupil detection under lighting and pose variations in the visible and active infrared bands. , 2011, , .		12
30	A Synthesis-Based Approach for Thermal-to-Visible Face Verification. , 2021, , .		11
31	Automated classification of mislabeled near-infrared left and right iris images using convolutional neural networks. , 2016, , .		10
32	Composite multilobe descriptors for cross-spectral recognition of full and partial face. Optical Engineering, 2016, 55, 083107.	0.5	10
33	iDetector: Automate Underground Forum Analysis Based on Heterogeneous Information Network. , 2018, , .		10
34	Ear Detection in the Wild Using Faster R-CNN Deep Learning. , 2018, , .		10
35	NEAT-o-Games. , 2008, , .		8
36	On a taxonomy of ear features. , 2016, , .		8

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37	On designing an unconstrained tri-band pupil detection system for human identification. Machine Vision and Applications, 2015, 26, 1007-1025.	1.7	7
38	On designing practical long range near infrared-based face recognitionÂsystems. Image and Vision Computing, 2016, 52, 25-41.	2.7	7
39	Bridging the spectral gap using image synthesis: a study on matching visible to passive infrared face images. Machine Vision and Applications, 2017, 28, 649-663.	1.7	7
40	Deep learning based estimation of facial attributes on challenging mobile phone face datasets. , 2019, , .		7
41	Evaluation of Deep Learning Models for Ear Recognition Against Image Distortions. , 2019, , .		7
42	On design and optimization of face verification systems that are smart-card based. Machine Vision and Applications, 2010, 21, 695-711.	1.7	6
43	Evaluating the efficiency of a night-time, middle-range infrared sensor for applications in human detection and recognition. Proceedings of SPIE, 2012, , .	0.8	6
44	SWIR imaging for facial image capture through tinted materials. Proceedings of SPIE, 2012, , .	0.8	6
45	Scenario Based Performance Optimisation in Face Verification Using Smart Cards. Lecture Notes in Computer Science, 2005, , 289-300.	1.0	5
46	Human ear detection in the thermal infrared spectrum. Proceedings of SPIE, 2012, , .	0.8	5
47	Performance versus Computational Complexity Trade-Off in Face Verification. Lecture Notes in Computer Science, 2004, , 169-177.	1.0	4
48	On enhancing cardiac pulse measurements through thermal imaging. , 2009, , .		4
49	Deep Feature Learning for Classification When Using Single Sensor Multi-wavelength Based Facial Recognition Systems in SWIR Band. Advanced Sciences and Technologies for Security Applications, 2018, , 147-163.	0.4	4
50	Mid-wave IR face recognition systems. SPIE Newsroom, 0, , .	0.1	4
51	Face Detection in MWIR Spectrum. Advanced Sciences and Technologies for Security Applications, 2020, , 145-158.	0.4	4
52	Classification of Soft Biometric Traits When Matching Near-Infrared Long-Range Face Images Against Their Visible Counterparts. Advanced Sciences and Technologies for Security Applications, 2020, , 77-104.	0.4	4
53	On Optimisation of Smart Card Face Verification Systems. , 2006, , .		3
54	Designing a smart-card-based face verification system: empirical investigation. Machine Vision and Applications, 2009, 20, 225-242.	1.7	3

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55	Can we match ultraviolet face images against their visible counterparts?. , 2015, , .		3
56	Learning Deep Features for Hierarchical Classification of Mobile Phone Face Datasets in Heterogeneous Environments. , 2017, , .		3
57	A Study on Human Recognition Using Auricle and Side View Face Images. Advanced Sciences and Technologies for Security Applications, 2018, , 77-104.	0.4	3
58	On designing MWIR and visible band based DeepFace detection models. , 2019, , .		3
59	Assessment of Data Augmentation Techniques for Firearm Detection in Surveillance Videos. , 2020, , .		3
60	Automatic tattoo image registration system. , 2016, , .		2
61	Video-Based Human Respiratory Wavelet Extraction and Identity Recognition. Advanced Sciences and Technologies for Security Applications, 2018, , 51-75.	0.4	2
62	Facial Surveillance and Recognition in the Passive Infrared Bands. Advanced Sciences and Technologies for Security Applications, 2018, , 127-145.	0.4	2
63	Automatically Detecting Arrhythmia-related Irregular Patterns using the Temporal and Spectro-Temporal Textures of ECG Signals. , 2018, , .		2
64	Emerging Biometric Modalities and their Use: Loopholes in the Terminology of the GDPR and Resulting Privacy Risks. , 2021, , .		2
65	iTrustSO. , 2019, , .		2
66	Mask R-CNN: Detection Performance on SPEED Spacecraft With Image Degradation. , 2021, , .		2
67	Imaging of blood cells based on snapshot Hyper-Spectral Imaging systems. Proceedings of SPIE, 2015, , .	0.8	1
68	Enhanced Tattoo Image Quality Assessment Through Multispectral Sensing. , 2017, 1, 1-4.		1
69	Large Scale Data Collection of Tattoo-Based Biometric Data from Social-Media Websites. , 2017, , .		1
70	Social Signals of Deception and Dishonesty. , 0, , 404-428.		1
71	Local Operators and Measures for Heterogeneous Face Recognition. , 2016, , 91-115.		1
72	Effects of Demographics and Photometric Normalization on Image Translation GANs for Cross-Spectral Face Recognition. , 2021, , .		1

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73	Robust LWIR-based Eye Center Detection through Thermal to Visible Image Synthesis. , 2021, , .		1
74	Smart-Card-Based Face Verification System: Empirical Optimization of System Meta-Parameters. , 2007, , .		0
75	Integrating physiological measurements with Avatars for effective identification technologies. , 2013, , .		0
76	Granting space and time to words: Blind semantic spatial localization for the case of facial images. , 2014, , .		0
77	Can the usage of human growth hormones affect facial appearance and the accuracy of face recognition systems?. , 2014, , .		0
78	On the effectiveness of statistical hypothesis testing in infrared-based face recognition in heterogeneous environments. , 2016, , .		0
79	Biclustering for ssDNA aptamer motif prototypes. , 2016, , .		0
80	Autofocus for SWIR facial imagery utilizing Haar wavelets. , 2017, , .		0
81	On Matching Visible to Passive Infrared Face Images Using Image Synthesis & Denoising. , 2017, , .		0
82	Semi-Automatic Geometric Normalization of Profile Faces. , 2019, , .		0
83	Shortwave IR for face-based recognition systems. SPIE Newsroom, 0, , .	0.1	0
84	Unconstrained Face Recognition Using Cell Phone Devices: Faces in the Wild. Advanced Sciences and Technologies for Security Applications, 2020, , 129-143.	0.4	0
85	A Deep Learning Based Approach to Iris Sensor Identification. , 2020, , .		0