Massimo Tistarelli

List of Publications by Year
in descending order

118 papers	2,025 citations	394421 19 h-index	345221 36 g-index
126 all docs	126 docs citations	126 times ranked	1338 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.	13.9	176
2	On the advantages of polar and log-polar mapping for direct estimation of time-to-impact from optical flow. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1993, 15, 401-410.	13.9	169
3	Active tracking strategy for monocular depth inference over multiple frames. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1990, 12, 13-27.	13.9	101
4	Super-resolution for biometrics: A comprehensive survey. Pattern Recognition, 2018, 78, 23-42.	8.1	95
5	Feature Level Fusion of Face and Fingerprint Biometrics. , 2007, , .		91
6	On soft biometrics. Pattern Recognition Letters, 2015, 68, 218-230.	4.2	85
7	Dynamic aspects in active vision. CVGIP Image Understanding, 1992, 56, 108-129.	1.3	79
8	Face Identification by SIFT-based Complete Graph Topology. , 2007, , .		66
9	Liveness detection based on 3D face shape analysis. , 2013, , .		61
10	Active/dynamic stereo vision. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1995, 17, 868-879.	13.9	49
11	3D object reconstruction using stereo and motion. IEEE Transactions on Systems, Man, and Cybernetics, 1989, 19, 1465-1476.	0.9	44
12	Estimation of depth from motion using an anthropomorphic visual sensor. Image and Vision Computing, 1990, 8, 271-278.	4.5	42
13	Deceiving faces: When plastic surgery challenges face recognition. Image and Vision Computing, 2016, 54, 71-82.	4.5	41
14	Robust Multi-modal and Multi-unit Feature Level Fusion of Face and Iris Biometrics. Lecture Notes in Computer Science, 2009, , 960-969.	1.3	38
15	Using camera motion to estimate range for robotic parts manipulation. IEEE Transactions on Automation Science and Engineering, 1990, 6, 509-521.	2.3	37
16	Active vision-based face authentication. Image and Vision Computing, 2000, 18, 299-314.	4.5	37
17	Dynamic face recognition: From human to machine vision. Image and Vision Computing, 2009, 27, 222-232.	4.5	37
18	Facial Age Synthesis With Label Distribution-Guided Generative Adversarial Network. IEEE Transactions on Information Forensics and Security, 2020, 15, 2679-2691.	6.9	34

#	Article	IF	Citations
19	MCC: A baseline algorithm for fingerprint verification in FVC-onGoing. , 2010, , .		33
20	Active/space-variant object recognition. Image and Vision Computing, 1995, 13, 215-226.	4.5	31
21	Multiple constraints to compute optical flow. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1996, 18, 1243-1250.	13.9	30
22	Face recognition by fusion of local and global matching scores using DS theory: An evaluation with uni-classifier and multi-classifier paradigm. , 2009, , .		29
23	Exploiting the “doddington zoo” effect in biometric fusion. , 2009, , .		29
24	Multisensor Biometric Evidence Fusion for Person Authentication Using Wavelet Decomposition and Monotonic-Decreasing Graph. , 2009, , .		25
25	Guest Editorial Introduction to the Special Issue on Image- and Video-Based Biometrics. IEEE Transactions on Circuits and Systems for Video Technology, 2004, 14, 1-3.	8.3	23
26	Bacteria Foraging Fusion for Face Recognition across Age Progression. , 2013, , .		22
27	Group-specific score normalization for biometric systems. , 2010, , .		21
28	Context awareness in biometric systems and methods: State of the art and future scenarios. Image and Vision Computing, 2018, 76, 27-37.	4.5	19
29	Biometrics in ambient intelligence. Journal of Ambient Intelligence and Humanized Computing, 2011, 2, 113-126.	4.9	18
30	On the Use of Discriminative Cohort Score Normalization for Unconstrained Face Recognition. IEEE Transactions on Information Forensics and Security, 2014, 9, 2063-2075.	6.9	18
31	Multiple constraints for optical flow. Lecture Notes in Computer Science, 1994, , 61-70.	1.3	17
32	Face Recognition under Ageing Effect: A Comparative Analysis. Lecture Notes in Computer Science, 2013, , 309-318.	1.3	17
33	Distinctiveness of faces. ACM Transactions on Applied Perception, 2008, 5, 1-18.	1.9	16
34	Person Authentication from Video of Faces: A Behavioral and Physiological Approach Using Pseudo Hierarchical Hidden Markov Models. Lecture Notes in Computer Science, 2005, , 113-120.	1.3	16
35	Customizing biometric authentication systems via discriminative score calibration. , 2012, , .		15
36	Biometrics at a Distance: Issues, Challenges, and Prospects. Advances in Pattern Recognition, 2009, , 3-21.	0.8	15

#	Article	IF	Citations
37	Active face recognition with a hybrid approach. Pattern Recognition Letters, 1997, 18, 933-946.	4.2	14
38	Robust Feature-Level Multibiometric Classification. , 2006, , .		14
39	Biometrics: In Search of Identity and Security (Q & A). IEEE MultiMedia, 2018, 25, 22-35.	1.7	14
40	Log-Polar Stereo for Anthropomorphic Robots. Lecture Notes in Computer Science, 2000, , 299-313.	1.3	14
41	Facial Template Synthesis based on SIFT Features. , 2007, , .		13
42	Combining gait and face for tackling the elapsed time challenges. , 2013, , .		13
43	Structural Similarity based image quality map for face recognition across plastic surgery. , 2013, , .		13
44	Toward More Realistic Face Recognition Evaluation Protocols for the YouTube Faces Database. , 2018, , .		12
45	Facial Age and Expression Synthesis Using Ordinal Ranking Adversarial Networks. IEEE Transactions on Information Forensics and Security, 2020, 15, 2960-2972.	6.9	12
46	Efficient Known-Sample Attack for Distance-Preserving Hashing Biometric Template Protection Schemes. IEEE Transactions on Information Forensics and Security, 2021, 16, 3170-3185.	6.9	12
47	Biometrics in Forensic Science: Challenges, Lessons and New Technologies. Lecture Notes in Computer Science, 2014, , 153-164.	1.3	11
48	Vein minutia cylinder-codes (V-MCC). , 2013, , .		10
49	Probabilistic face authentication using hidden Markov models. , 2005, , .		8
50	Graph application on face for personal authentication and recognition. , 2008, , .		8
51	Human gait identification from extremely lowâ€quality videos: an enhanced classifier ensemble method. IET Biometrics, 2014, 3, 84-93.	2.5	8
52	Human Face Analysis: From Identity to Emotion and Intention Recognition. Lecture Notes in Computer Science, 2010, , 76-88.	1.3	8
53	Automated quality control of printed flasks and bottles. Machine Vision and Applications, 2011, 22, 269-281.	2.7	7
54	Picture-specific cohort score normalization for face pair matching. , 2013, , .		7

#	Article	IF	Citations
55	Age and gender classification using local appearance descriptors from facial components. , 2017, , .		7
56	On Finding Differences Between Faces. Lecture Notes in Computer Science, 2005, , 329-338.	1.3	7
57	Active/dynamic stereo for navigation. Lecture Notes in Computer Science, 1992, , 516-525.	1.3	7
58	Distance Measures for Gabor Jets-Based Face Authentication: A Comparative Evaluation. Lecture Notes in Computer Science, 2007, , 474-483.	1.3	7
59	Sparse representations and Random Projections for robust and cancelable biometrics. , 2010, , .		6
60	Modeling biometric template update with Ant Colony Optimization. , 2012, , .		6
61	Hidden Markov model-based face recognition using selective attention. , 2007, , .		5
62	Local Deep Features for Composite Face Sketch Recognition. , 2019, , .		5
63	Nineteen Urgent Research Topics in Biometrics and Identity Management. Lecture Notes in Computer Science, 2008, , 228-235.	1.3	5
64	Identity Management in Face Recognition Systems. Lecture Notes in Computer Science, 2008, , 67-81.	1.3	5
65	Active Vision-based Face Recognition: Issues, Applications and Techniques. , 1998, , 262-286.		5
66	Robust fusion using boosting and transduction for component-based face recognition. , 2008, , .		4
67	On Combining Face Local Appearance and Geometrical Features for Race Classification. Lecture Notes in Computer Science, 2019, , 567-574.	1.3	4
68	Understanding Iconic Image-Based Face Biometrics. Lecture Notes in Computer Science, 2002, , 19-29.	1.3	4
69	Generalization in Holistic versus Analytic Processing of Faces. , 2007, , .		3
70	Measuring changes in face appearance through aging. , 2009, , .		3
71	Probabilistic approach to face recognition. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2012, 35, 529-534.	1.1	3
72	Pattern Recognition, Part 1 [Guest editors' introduction]. IEEE Intelligent Systems, 2016, 31, 6-8.	4.0	3

#	Article	IF	Citations
73	Biometric Technologies for Forensic Science and Policing: State of the Art. Advances in Computer Vision and Pattern Recognition, 2017, , 1-15.	1.3	3
74	Real Time 3D Face-Ear Recognition on Mobile Devices: New Scenarios for 3D Biometrics â€œin-the-Wildâ€• , 2017, , 55-75.		3
75	2D Face Recognition. , 2009, , 213-262.		3
76	On the Quantitative Estimation of Short-Term Aging in Human Faces. Lecture Notes in Computer Science, 2009, , 575-584.	1.3	3
77	Face Recognition on Mobile Devices Based on Frames Selection. Lecture Notes in Computer Science, 2019, , 316-325.	1.3	3
78	Analysis of multidimensional images on the Connection Machine system. Concurrency and Computation: Practice and Experience, 1991, 3, 699-713.	0.5	2
79	An Investigation into Feature-Level Fusion of Face and Fingerprint Biometrics. , 0, , 120-142.		2
80	Face image abstraction by Ford-Fulkerson algorithm and invariant feature descriptor for human identification. , 2014, , .		2
81	Towards practical space-variant based face recognition and authentication. , 2014, , .		2
82	SIFT fusion of kernel eigenfaces for face recognition. , 2015, , .		2
83	Face recognition â€œon the moveâ€•combining incomplete information. , 2018, , .		2
84	Appearance-based passenger counting in cluttered scenes with lateral movement compensation. Neural Computing and Applications, 2021, 33, 9891-9912.	5.6	2
85	Foveated Vision for Deepface Recognition. Lecture Notes in Computer Science, 2019, , 31-41.	1.3	2
86	Face recognition by fusion of local and global matching scores using DS theory: An evaluation with uni-classifier and multi-classifier paradigm. , 2009, , .		2
87	Low Level Multispectral Palmprint Image Fusion for Large Scale Biometrics Authentication. , 0, , 89-104.		2
88	Understanding Critical Factors in Appearance-Based Gender Categorization. Lecture Notes in Computer Science, 2012, , 280-289.	1.3	2
89	On the Use of Local Fixations and Quality Measures for Deep Face Recognition. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2022, 4, 150-162.	4.4	2
90	Guest Editorial: Introduction to the Special Issue on Image- and Video-Based Biometricsâ€”Part II. IEEE Transactions on Circuits and Systems for Video Technology, 2004, 14, 146-148.	8.3	1

#	Article	IF	Citations
91	Spiral Topologies for Biometric Recognition. Lecture Notes in Computer Science, 2005, , 69-90.	1.3	1
92	Face recognition by local and global analysis. , 2009, , .		1
93	A Biologically-inspired Attentional Approach for Face Recognition. , 2019, , .		1
94	Maximized Posteriori Attributes Selection from Facial Salient Landmarks for Face Recognition. Lecture Notes in Computer Science, 2010, , 337-344.	1.3	1
95	From 3D Faces to Biometric Identities. Lecture Notes in Computer Science, 2011, , 156-167.	1.3	1
96	Foveated Vision for Biologically Inspired Continuous Face Authentication. Advances in Computer Vision and Pattern Recognition, 2019, , 129-143.	1.3	1
97	RBECA: A regularized Bi-partitioned entropy component analysis for human face recognition. Expert Systems With Applications, 2022, 202, 117273.	7.6	1
98	Three-dimensional reconstruction using virtual planes and horopters. , 1991, , .		0
99	<title>Spatiotemporal filtering for visual motion estimation from real images</title>. , 1992, 1613, 234.		0
100	Techniques for iconic image-based biometrics. , 0, , .		0
101	What Can I Tell from Your Face?. Lecture Notes in Computer Science, 2004, , 109-116.	1.3	0
102	Recognizing People's Faces: from Human to Machine Vision. , 2006, , .		0
103	Advanced Identification Technologies for Human-Computer Interaction in Crisis Rooms. Lecture Notes in Computer Science, 2007, , 553-562.	1.3	0
104	A 3D algorithm for unsupervised face identification. , 2015, , .		0
105	Pattern Recognition, Part 2. IEEE Intelligent Systems, 2016, 31, 3-5.	4.0	0
106	IEEE Access Special Section Editorial: Visual Surveillance and Biometrics: Practices, Challenges, and Possibilities. IEEE Access, 2019, 7, 137638-137641.	4.2	0
107	An Hybrid Attention-Based System forÂtheÂPrediction of Facial Attributes. Lecture Notes in Computer Science, 2021, , 116-127.	1.3	0
108	Quality-based Representation for Unconstrained Face Recognition. , 2021, , .		0

#	Article	IF	Citations
109	Facial and Motion Analysis for Image and Video Retrieval. Computational Imaging and Vision, 2001, , 235-254.	0.6	0
110	Face Recognition in Humans and Machines. Advances in Pattern Recognition, 2009, , 111-153.	0.8	0
111	Investigating the Usability of SIFT Features in Biometrics. Atlantis Computational Intelligence Systems, 2010, , 125-161.	0.5	0
112	Face Recognition Using Global and Local Salient Features. Computer Communications and Networks, 2011, , 453-477.	0.8	0
113	Facial Recognition, Facial Expression and Intention Detection. The International Library of Ethics, Law and Technology, 2012, , 229-255.	0.4	0
114	Robust Coarse-to-Fine Sparse Representation for Face Recognition. Lecture Notes in Computer Science, 2013, , 171-180.	1.3	0
115	Real World Applications. , 2019, , 149-164.		0
116	Real World Applications. Advances in Computational Intelligence and Robotics Book Series, 0, , 1-15.	0.4	0
117	Measuring changes in face appearance through aging. , 2009, , .		0
118	Guest Editorial Introduction to the Special Issue on Best Biometrics Papers at ICPR 2020. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2022, 4, 149-149.	4.4	0