Mohammed Daoudi

List of Publications by Year
in descending order

126 papers	3,312 citations	257101 24 h-index	182168 51 g-index
132 all docs	132 docs citations	132 times ranked	2403 citing authors

#	Article	IF	Citations
1	3D Face Recognition under Expressions, Occlusions, and Pose Variations. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 2270-2283.	9.7	317
2	Three-Dimensional Face Recognition Using Shapes of Facial Curves. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 1858-1863.	9.7	252
3	3-D Human Action Recognition by Shape Analysis of Motion Trajectories on Riemannian Manifold. IEEE Transactions on Cybernetics, 2015, 45, 1340-1352.	6.2	248
4	A Bayesian 3-D Search Engine Using Adaptive Views Clustering. IEEE Transactions on Multimedia, 2007, 9, 78-88.	5.2	201
5	Accurate 3D action recognition using learning on the Grassmann manifold. Pattern Recognition, 2015, 48, 556-567.	5.1	152
6	A comparison of methods for non-rigid 3D shape retrieval. Pattern Recognition, 2013, 46, 449-461.	5.1	147
7	3D facial expression recognition using SIFT descriptors of automatically detected keypoints. Visual Computer, 2011, 27, 1021-1036.	2.5	120
8	A Set of Selected SIFT Features for 3D Facial Expression Recognition. , 2010, , .		103
9	An Intrinsic Framework for Analysis of Facial Surfaces. International Journal of Computer Vision, 2009, 82, 80-95.	10.9	77
10	Partial 3D Shape Retrieval by Reeb Pattern Unfolding. Computer Graphics Forum, 2009, 28, 41-55.	1.8	77
11	Boosting 3-D-Geometric Features for Efficient Face Recognition and Gender Classification. IEEE Transactions on Information Forensics and Security, 2012, 7, 1766-1779.	4.5	71
12	Shape analysis of local facial patches for 3D facial expression recognition. Pattern Recognition, 2011, 44, 1581-1589.	5.1	68
13	4-D Facial Expression Recognition by Learning Geometric Deformations. IEEE Transactions on Cybernetics, 2014, 44, 2443-2457.	6.2	63
14	Blocking Adult Images Based on Statistical Skin Detection. Electronic Letters on Computer Vision and Image Analysis, 2004, 4, 1.	0.5	62
15	A New 3D-Matching Method of Nonrigid and Partially Similar Models Using Curve Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 852-858.	9.7	59
16	Learning Boundary Edges for 3D—Mesh Segmentation. Computer Graphics Forum, 2011, 30, 2170-2182.	1.8	53
17	Fully automatic 3D facial expression recognition using differential mean curvature maps and histograms of oriented gradients. , 2013, , .		44
18	Motion segment decomposition of RGB-D sequences for human behavior understanding. Pattern Recognition, 2017, 61, 222-233.	5.1	42

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19	Space-Time Pose Representation for 3D Human Action Recognition. Lecture Notes in Computer Science, 2013, , 456-464.	1.0	36
20	Statistical Models for Skin Detection. , 2003, , .		35
21	Lip reading with Hahn Convolutional Neural Networks. Image and Vision Computing, 2019, 88, 76-83.	2.7	35
22	Pose and Expression-Invariant 3D Face Recognition using Elastic Radial Curves. , 2010, , .		35
23	Topology driven 3D mesh hierarchical segmentation. , 2007, , .		34
24	Detecting Depression Severity by Interpretable Representations of Motion Dynamics. , 2018, 2018, 739-745.		33
25	A comparative study of existing metrics for 3D-mesh segmentation evaluation. Visual Computer, 2010, 26, 1451-1466.	2.5	32
26	A Novel Geometric Framework on Gram Matrix Trajectories for Human Behavior Understanding. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 1-14.	9.7	32
27	Fully automatic 3D facial expression recognition using a region-based approach. , 2011, , .		31
28	A Riemannian analysis of 3D nose shapes for partial human biometrics. , 2009, , .		30
29	Dynamic Facial Expression Generation on Hilbert Hypersphere With Conditional Wasserstein Generative Adversarial Nets. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 848-863.	9.7	30
30	Elastic Shape Models for Face Analysis Using Curvilinear Coordinates. Journal of Mathematical Imaging and Vision, 2009, 33, 253-265.	0.8	29
31	Fast and efficient 3D face recognition using wavelet networks. , 2009, , .		27
32	Local 3D Shape Analysis for Facial Expression Recognition. , 2010, , .		27
33	A Novel Space-Time Representation on the Positive Semidefinite Cone for Facial Expression Recognition. , 2017, , .		27
34	Estimation of general 2D affine motion using Fourier descriptors. Pattern Recognition, 2002, 35, 223-228.	5.1	26
35	Enhancing 3D mesh topological skeletons with discrete contour constrictions. Visual Computer, 2008, 24, 155-172.	2.5	26
36	Visual Image Retrieval by Multiscale Description of User Sketches. Journal of Visual Languages and Computing, 2000, 11, 287-301.	1.8	24

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37	Combining face averageness and symmetry for 3D-based gender classification. Pattern Recognition, 2015, 48, 746-758.	5.1	23
38	3D human motion analysis framework for shape similarity and retrieval. Image and Vision Computing, 2014, 32, 131-154.	2.7	22
39	Affine invariant descriptors using Fourier series. Pattern Recognition Letters, 2002, 23, 1109-1118.	2.6	21
40	Invariant High Level Reeb Graphs of 3D Polygonal Meshes. , 2006, , .		19
41	Sketch- Based Images Database Retrieval. Lecture Notes in Computer Science, 1998, , 185-191.	1.0	19
42	Grassmannian Representation of Motion Depth for 3D Human Gesture and Action Recognition. , 2014, , .		18
43	Representation, Analysis, and Recognition of 3D Humans. ACM Transactions on Multimedia Computing, Communications and Applications, 2018, 14, 1-36.	3.0	18
44	Automatic Analysis of Facial Expressions Based on Deep Covariance Trajectories. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 3892-3905.	7.2	18
45	Emotion Recognition by Body Movement Representation on the Manifold of Symmetric Positive Definite Matrices. Lecture Notes in Computer Science, 2017, , 550-560.	1.0	18
46	A probabilistic approach for 3D shape retrieval by characteristic views. Pattern Recognition Letters, 2007, 28, 1705-1718.	2.6	17
47	SHape REtrieval contest 2008: 3D face scans. , 2008, , .		17
48	Gauge Invariant Framework for Shape Analysis of Surfaces. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 46-59.	9.7	17
49	The smart home for the elderly: Perceptions, technologies and psychological accessibilities: The requirements analysis for the elderly in Thailand. , 2017, , .		16
50	Skin detection using pairwise models. Image and Vision Computing, 2005, 23, 1122-1130.	2.7	14
51	Fall Detection of Elderly People Using the Manifold of Positive Semidefinite Matrices. Journal of Imaging, 2021, 7, 109.	1.7	14
52	Shape distances for contour tracking and motion estimation. Pattern Recognition, 1999, 32, 1297-1306.	5.1	13
53	Learning shape variations of motion trajectories for gait analysis. , 2016, , .		13
54	Analyzing of facial paralysis by shape analysis of 3D face sequences. Image and Vision Computing, 2017, 67, 67-88.	2.7	13

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55	Magnifying Subtle Facial Motions for Effective 4D Expression Recognition. IEEE Transactions on Affective Computing, 2019, 10, 524-536.	5.7	13
56	Combined shape analysis of human poses and motion units for action segmentation and recognition. , 2015, , .		12
57	A 3-D Search engine based on Fourier series. Computer Vision and Image Understanding, 2010, 114, 1-7.	3.0	11
58	Human-object interaction recognition by learning the distances between the object and the skeleton joints. , 2015, , .		11
59	Joint gender, ethnicity and age estimation from 3D faces. Image and Vision Computing, 2017, 64, 90-102.	2.7	10
60	Local visual patch for 3d shape retrieval. , 2010, , .		10
61	3D-Model search engine from photos. , 2007, , .		9
62	Fast and precise kinematic skeleton extraction of 3D dynamic meshes. , 2008, , .		9
63	When your face describes your memories: facial expressions during retrieval of autobiographical memories. Reviews in the Neurosciences, 2018, 29, 861-872.	1.4	9
64	An experimental illustration of 3D facial shape analysis under facial expressions. Annales Des Telecommunications/Annals of Telecommunications, 2009, 64, 369-379.	1.6	8
65	Geometric based 3D facial gender classification. , 2012, , .		8
66	A Grassmann framework for 4D facial shape analysis. Pattern Recognition, 2016, 57, 21-30.	5.1	8
67	Human Motion Prediction Using Manifold-Aware Wasserstein GAN. , 2021, , .		8
68	Affine invariant descriptors for color images using Fourier series. Pattern Recognition Letters, 2003, 24, 1339-1348.	2.6	7
69	3D-Shape Retrieval Using Curves and HMM. , 2010, , .		7
70	A parts-based approach for automatic 3D shape categorization using belief functions. ACM Transactions on Intelligent Systems and Technology, 2013, 4, 1-16.	2.9	7
71	Human Object Interaction Recognition Using Rate-Invariant Shape Analysis of Inter Joint Distances Trajectories. , 2016, , .		7
72	A New Computational Approach to Identify Human Social Intention in Action. , 2018, , .		7

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73	Emotion Recognition from Multidimensional Electroencephalographic Signals on the Manifold of Symmetric Positive Definite Matrices. , 2020, , .		7
74	Detection of Abnormal Gait from Skeleton Data. , 2016, , .		7
75	Nasal Region Contribution in 3D Face Biometrics Using Shape Analysis Framework. Lecture Notes in Computer Science, 2009, , 357-366.	1.0	7
76	3D face recognition: A robust multi-matcher approach to data degradations. , 2012, , .		6
77	Positive/Negative Emotion Detection from RGB-D Upper Body Images. Lecture Notes in Computer Science, 2015, , 109-120.	1.0	6
78	Novel generative model for facial expressions based on statistical shape analysis of landmarks trajectories. , 2016, , .		6
79	Fitting, Comparison, and Alignment of Trajectories on Positive Semi-Definite Matrices with Application to Action Recognition. , 2019, , .		6
80	Automatic Estimation of Self-Reported Pain by Interpretable Representations of Motion Dynamics. , 2021, 2020, .		6
81	A Framework of Calculus on Facial Surfaces. , 2007, , .		5
82	3D mesh Reeb graph computation using commute-time and diffusion distances. Proceedings of SPIE, 2012, , .	0.8	5
83	Gram Matrices Formulation of Body Shape Motion: An Application for Depression Severity Assessment. , 2019, , .		5
84	Subject-Dependent Emotion Recognition System Based on Multidimensional Electroencephalographic Signals: A Riemannian Geometry Approach. IEEE Access, 2022, 10, 14993-15006.	2.6	5
85	The mixture of K-Optimal-Spanning-Trees based probability approximation: Application to skin detection. Image and Vision Computing, 2008, 26, 1574-1590.	2.7	4
86	A subjective experiment for 3D-mesh segmentation evaluation. , 2010, , .		4
87	Non-rigid 3D shape classification using bag-of-feature techniques. , 2011, , .		4
88	Extremal human curves: A new human body shape and pose descriptor. , 2013, , .		4
89	Barycentric Representation and Metric Learning for Facial Expression Recognition. , 2018, , .		4
90	Stereo matching based on orthogonal Gaussian-Hermite moments. , 2009, , .		3

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91	Gender and 3D facial symmetry: What's the relationship?. , 2013, , .		3
92	Magnifying subtle facial motions for 4D Expression Recognition. , 2016, , .		3
93	Spontaneous Expression Detection from 3D Dynamic Sequences by Analyzing Trajectories on Grassmann Manifolds. IEEE Transactions on Affective Computing, 2018, 9, 271-284.	5.7	3
94	Projection-based classification of surfaces for 3D human mesh sequence retrieval. Computers and Graphics, 2022, 102, 45-55.	1.4	3
95	A Riemannian Framework for Analysis of Human Body Surface. , 2022, , .		3
96	A framework for 3D CAD models retrieval from 2D images. Annales Des Telecommunications/Annals of Telecommunications, 2005, 60, 1337-1359.	1.6	2
97	On 3D Retrieval from Photos. , 2006, , .		2
98	3D-Mesh Models: View-Based Indexing and Structural Analysis. , 2007, , 298-307.		2
99	Three-dimensional face recognition using elastic deformations of facial surfaces. , 2008, , .		2
100	The face of memory: experiential avoidance and facial expressions during the retrieval of autobiographical memories. Journal of Cognitive Psychology, 2019, 31, 533-542.	0.4	2
101	Facial Asymmetry Assessment from 3D Shape Sequences: The Clinical Case of Facial Paralysis. , 2016, , .		2
102	<title>Indexing and retrieval VRML models</title>. , 2001, , .		1
103	Deformable shape retrieval using bag-of-feature techniques. Proceedings of SPIE, 2011, , .	0.8	1
104	Which 3D geometric facial features give up your identity?. , 2012, , .		1
105	Sélection de caractéristiques géométriques pour la reconnaissance faciale 3D. Traitement Du Signal, 2012, 29, 383-407.	0.8	1
106	Face and Gesture Analysis for Health Informatics. , 2020, 2020, 874-875.		1
107	Modelling the Statistics of Cyclic Activities by Trajectory Analysis on the Manifold of Positive-Semi-Definite Matrices. , 2020, , .		1
108	Un modèle générique multi-niveaux pour la recherche d'image par le contenu. Annales Des Telecommunications/Annals of Telecommunications, 2003, 58, 630-655.	1.6	0

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109	ACM workshop on 3d object retrieval. , 2010, , .		0
110	Multi patches 3D facial representation for person authentication using AdaBoost. , 2010, , .		0
111	Eurographics 2010 Workshop on 3D Object Retrieval (EG 3DORâ€™10) in cooperation with ACM SIGGRAPH. Computer Graphics Forum, 2011, 30, 229-230.	1.8	0
112	Joint ACM workshop on human gesture and behavior understanding. , 2011, , .		0
113	Analyzing trajectories on Grassmann manifold for early emotion detection from depth videos. , 2015, , .		0
114	Introduction to the Special Issue on Representation, Analysis, and Recognition of 3D Humans. ACM Transactions on Multimedia Computing, Communications and Applications, 2018, 14, 1-2.	3.0	0
115	When Computers Decode your Social Intention. , 2019, , .		0
116	2D Landmark-Based Facial Asymmetry Assessment in the Clinical Case of Facial Paralysis. , 2019, , .		0
117	Hybrid Approach for 3D Head Reconstruction: Using Neural Networks and Visual Geometry. , 2021, , .		0
118	Adult Image Filtering for Internet Safety. Internet and Communications, 2006, , 335-352.	0.2	0
119	Elastic radial curves to model 3D facial deformations. , 2010, , .		0
120	A Dense Deformation Field for Facial Expression Analysis in Dynamic Sequences of 3D Scans. Lecture Notes in Computer Science, 2013, , 148-159.	1.0	0
121	Optimization methods in multilayer classifier networks for automatic control of lamellibranch larva growth. Lecture Notes in Computer Science, 1997, , 220-227.	1.0	0
122	A Grassmannian Framework for Face Recognition of 3D Dynamic Sequences with Challenging Conditions. Lecture Notes in Computer Science, 2015, , 326-340.	1.0	0
123	Age Estimation Using 3D Shape of the Face. Communications in Computer and Information Science, 2015, , 175-190.	0.4	0
124	Exploring the Magnitude of Human Sexual Dimorphism in 3D Face Gender Classification. Lecture Notes in Computer Science, 2015, , 697-710.	1.0	0
125	The Riemannian and Affine Geometry of Facial Expression and Action Recognition. , 2020, , 649-673.		0
126	3D Indexing and Retrieval. , 0, , 87-138.		0