Hichem Sahli

List of Publications by Year
in descending order

71 papers	1,197 citations	516215 16 h-index	552369 26 g-index
74 all docs	74 docs citations	74 times ranked	1106 citing authors

#	Article	IF	Citations
1	Region Attentive Action Unit Intensity Estimation With Uncertainty Weighted Multi-Task Learning. IEEE Transactions on Affective Computing, 2023, 14, 2033-2047.	5.7	2
2	Leveraging the Deep Learning Paradigm for Continuous Affect Estimation from Facial Expressions. IEEE Transactions on Affective Computing, 2022, 13, 426-439.	5.7	3
3	Multipath Ghost Recognition for Indoor MIMO Radar. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	2.7	18
4	A multi-scale multi-attention network for dynamic facial expression recognition. Multimedia Systems, 2022, 28, 479-493.	3.0	6
5	Multi-View CNN-LSTM Architecture for Radar-Based Human Activity Recognition. IEEE Access, 2022, 10, 24509-24519.	2.6	23
6	Statistical parametrization of cell cytoskeleton reveals lung cancer cytoskeletal phenotype with partial EMT signature. Communications Biology, 2022, 5, 407.	2.0	8
7	Multi-Radar Fusion for Failure-tolerant Vulnerable Road Users Classification. , 2022, , .		1
8	Monocular 3D Facial Expression Features for Continuous Affect Recognition. IEEE Transactions on Multimedia, 2021, 23, 3540-3550.	5.2	5
9	Integrating Deep and Shallow Models for Multi-Modal Depression Analysisâ€"Hybrid Architectures. IEEE Transactions on Affective Computing, 2021, 12, 239-253.	5.7	59
10	On the Generalization and Reliability of Single Radar-Based Human Activity Recognition. IEEE Access, 2021, 9, 85334-85349.	2.6	12
11	Action Unit Driven Facial Expression Synthesis from a Single Image with Patch Attentive GAN. Computer Graphics Forum, 2021, 40, 47-61.	1.8	1
12	Context-Aware Human Trajectories Prediction via Latent Variational Model. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 1876-1889.	5.6	12
13	Transformer Encoder With Multi-Modal Multi-Head Attention for Continuous Affect Recognition. IEEE Transactions on Multimedia, 2021, 23, 4171-4183.	5.2	37
14	An efficient model-level fusion approach for continuous affect recognition from audiovisual signals. Neurocomputing, 2020, 376, 42-53.	3.5	9
15	SVRG-MKL: A Fast and Scalable Multiple Kernel Learning Solution for Features Combination in Multi-Class Classification Problems. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1710-1723.	7.2	11
16	Learning Salient Segments for Speech Emotion Recognition Using Attentive Temporal Pooling. IEEE Access, 2020, 8, 151740-151752.	2.6	6
17	Neural architecture search under black-box objectives with deep reinforcement learning and increasingly-sparse rewards. , 2020, , .		3
18	Single yeast cell nanomotions correlate with cellular activity. Science Advances, 2020, 6, eaba3139.	4.7	25

#	Article	IF	Citations
19	Radar-camera Fusion for Road Target Classification. , 2020, , .		17
20	Efficient Spatial Temporal Convolutional Features for Audiovisual Continuous Affect Recognition. , 2019, , .		21
21	GestureVLAD: Combining Unsupervised Features Representation and Spatio-Temporal Aggregation for Doppler-Radar Gesture Recognition. IEEE Access, 2019, 7, 137122-137135.	2.6	22
22	A New Framework for Modelling and Monitoring the Conversion of Cultivated Land to Built-up Land Based on a Hierarchical Hidden Semi-Markov Model Using Satellite Image Time Series. Remote Sensing, 2019, 11, 210.	1.8	7
23	Continuous affect recognition with weakly supervised learning. Multimedia Tools and Applications, 2019, 78, 19387-19412.	2.6	7
24	A video prediction approach for animating single face image. Multimedia Tools and Applications, 2019, 78, 16389-16410.	2.6	6
25	Automatic Depression Analysis Using Dynamic Facial Appearance Descriptor and Dirichlet Process Fisher Encoding. IEEE Transactions on Multimedia, 2019, 21, 1476-1486.	5.2	42
26	Leveraging the Bayesian Filtering Paradigm for Vision-Based Facial Affective State Estimation. IEEE Transactions on Affective Computing, 2018, 9, 463-477.	5.7	5
27	A Hierarchical Association Framework for Multi-Object Tracking in Airborne Videos. Remote Sensing, 2018, 10, 1347.	1.8	6
28	Micro-Doppler feature extraction using convolutional auto-encoders for low latency target classification. , 2017, , .		16
29	Multimodal Measurement of Depression Using Deep Learning Models. , 2017, , .		100
30	DCNN and DNN based multi-modal depression recognition. , 2017, , .		23
31	A Robust Actin Filaments Image Analysis Framework. PLoS Computational Biology, 2016, 12, e1005063.	1.5	36
32	Improving unsupervised flood detection with spatio-temporal context on HJ-1B CCD data. , 2016, , .		3
33	Compressive Tracking based on Superpixel Segmentation. , 2016, , .		0
34	Decision Tree Based Depression Classification from Audio Video and Language Information. , 2016, , .		83
35	Agricultural fields classification in semi-arid central Tunisia using SPOT 7 image. , 2016, , .		0
36	Lectin-Glycan Interaction Network-Based Identification of Host Receptors of Microbial Pathogenic Adhesins. MBio, 2016, 7, .	1.8	48

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37	Vehicles detection using GF-2 imagery based on watershed image segmentation. , 2016, , .		5
38	Continuous Change Detection and Classification Using Hidden Markov Model: A Case Study for Monitoring Urban Encroachment onto Farmland in Beijing. Remote Sensing, 2015, 7, 15318-15339.	1.8	24
39	Multimodal dimensional affect recognition using deep bidirectional long short-term memory recurrent neural networks. , 2015, , .		15
40	Monocular 3D facial information retrieval for automated facial expression analysis. , 2015, , .		4
41	Multimodal depression recognition with dynamic visual and audio cues. , 2015, , .		33
42	Multimodal Affective Dimension Prediction Using Deep Bidirectional Long Short-Term Memory Recurrent Neural Networks. , 2015, , .		102
43	Gibberish speech as a tool for the study of affective expressiveness for robotic agents. Multimedia Tools and Applications, 2015, 74, 9959-9982.	2.6	6
44	Recognition of facial actions and their temporal segments based on duration models. Multimedia Tools and Applications, 2015, 74, 10001-10024.	2.6	5
45	Relevance units machine based dimensional and continuous speech emotion prediction. Multimedia Tools and Applications, 2015, 74, 9983-10000.	2.6	7
46	Efficient Learning of Spatial Patterns with Multi-Scale Conditional Random Fields for Region-Based Classification. Remote Sensing, 2014, 6, 6727-6764.	1.8	3
47	Augmented Lagrangianâ€based approach for dense threeâ€dimensional structure and motion estimation from binocular image sequences. IET Computer Vision, 2014, 8, 98-109.	1.3	1
48	Object Segmentation Based on Contour-Skeleton Duality. , 2014, , .		0
49	Objectifying Facial Expressivity Assessment of Parkinsonâ€™s Patients: Preliminary Study. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-12.	0.7	33
50	Speech driven photo realistic facial animation based on an articulatory DBN model and AAM features. Multimedia Tools and Applications, 2014, 73, 397-415.	2.6	9
51	Oriented Polar Snakes for Phase Contrast Cell Images Segmentation. Lecture Notes in Computer Science, 2013, , 25-32.	1.0	2
52	Adaptive nonlinear probabilistic filter for Positron Emission Tomography. , 2012, , .		1
53	Passive infrared technique for buried object detection and classification. , 2011, , .		0
54	Detection and characterization of buried landmines using infrared thermography. Inverse Problems in Science and Engineering, 2011, 19, 281-307.	1.2	11

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55	Smooth adaptive fitting of 3D face model for the estimation of rigid and nonrigid facial motion in video sequences. Signal Processing: Image Communication, 2011, 26, 550-566.	1.8	3
56	Hardware and software architecture for AUV based on low-cost sensors. , 2010, , .		1
57	A High Efficient System for Traffic Mean Speed Estimation from MPEG Video. , 2009, , .		6
58	A Stochastic Framework for the Identification of Building Rooftops Using a Single Remote Sensing Image. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 259-271.	2.7	70
59	Infrared Thermography for Buried Landmine Detection: Inverse Problem Setting. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 3987-4004.	2.7	36
60	A Nonlinear Iterative Reconstruction and Analysis Approach to Shape-Based Approximate Electromagnetic Tomography. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 1558-1574.	2.7	16
61	Backward-Forward Combined Convolutive Blind Source Separation. , 2008, , .		0
62	A biomechanical model for image-based estimation of 3D face deformations. , 2008, , .		4
63	Multispectral Image Fusion for Active Millimeter Wave Imaging Application. , 2008, , .		6
64	Estimation of piecewise constant coefficients of parabolic equations: applications to the detection of buried objects. Inverse Problems in Science and Engineering, 2008, 16, 903-925.	1.2	1
65	Simple solution for visual servoing of camera-in-hand robots in the 3d Cartesian space. , 2008, , .		3
66	A Decoupled Control for Visual Servoing of Camera-in-Hand Robot with 2D Movement. , 2008, , .		4
67	Millimeter wave inspection of concealed objects. Microwave and Optical Technology Letters, 2007, 49, 2733-2737.	0.9	17
68	Investigation of Time–Frequency Features for GPR Landmine Discrimination. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 118-129.	2.7	76
69	A framework for integrating MPEG-7 knowledge templates into video surveillance applications. , 2006, , .		0
70	Tele-robot with shared autonomy: Distributed navigation development framework. Integrated Computer-Aided Engineering, 2006, 13, 329-345.	2.5	6
71	CoRoBA, an Open Framework for Multi-Sensor Robotic System Integration. , 0, , .		2