Ana-Maria Cretu

List of Publications by Year
in descending order

33 papers	486 citations	1163117 8 h-index	839539 18 g-index
33 all docs	33 docs citations	33 times ranked	536 citing authors

#	Article	IF	Citations
1	Systematic Analysis and Computational Intelligence Based Modeling of Photovoltaic Power Generation in Snow Conditions. IEEE Journal of Photovoltaics, 2022, 12, 406-420.	2.5	5
2	Systematic photovoltaic system power losses calculation and modeling using computational intelligence techniques. Applied Energy, 2021, 284, 116396.	10.1	16
3	Transfer of Learning from Vision to Touch: A Hybrid Deep Convolutional Neural Network for Visuo-Tactile 3D Object Recognition. Sensors, 2021, 21, 113.	3.8	8
4	Computational Intelligence Based Snow Cover Prediction for Photovoltaic Systems. , 2021, , .		1
5	Object Recognition From Haptic Glance at Visually Salient Locations. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 672-682.	4.7	11
6	PSO-Based Modeling and Analysis of Electrical Characteristics of Photovoltaic Module Under Nonuniform Snow Patterns. IEEE Access, 2020, 8, 197484-197498.	4.2	5
7	Snow Loss Prediction for Photovoltaic Farms Using Computational Intelligence Techniques. IEEE Journal of Photovoltaics, 2020, 10, 1044-1052.	2.5	26
8	An Application of Deep Learning to Tactile Data for Object Recognition under Visual Guidance. Sensors, 2019, 19, 1534.	3.8	4
9	Particle swarm optimisationâ€based model and analysis of photovoltaic module characteristics in snowy conditions. IET Renewable Power Generation, 2019, 13, 1950-1957.	3.1	7
10	End-Effector Approach Flexibilization in a Surface Approximation Task Using a Bioinspired Tactile Sensing Module. , 2019, , .		1
11	A Framework for Collision Prediction Using Historical Accident Information and Real-time Sensor Data: A Case Study for the City of Ottawa. , 2019, , .		0
12	A Visuo-Haptic Framework for Object Recognition Inspired by Human Tactile Perception. Proceedings (mdpi), 2019, 4, 47.	0.2	3
13	A Virtual Tactile Sensor with Adjustable Precision and Size for Object Recognition. , 2018, , .		2
14	A 3D Visual Attention Model to Guide Tactile Data Acquisition for Object Recognition. Proceedings (mdpi), 2018, 2, 142.	0.2	1
15	Adaptive Weighting with SMOTE for Learning from Imbalanced Datasets: A Case Study for Traffic Offence Prediction. , 2018, , .		3
16	Perceptually Improved 3D Object Representation Based on Guided Adaptive Weighting of Feature Channels of a Visual-Attention Model. 3D Research, 2018, 9, 1.	1.8	6
17	Real-Time Posture Control for a Robotic Manipulator Using Natural Humanâ€"Computer Interaction. Proceedings (mdpi), 2018, 4, .	0.2	0
18	Multimodal Bio-Inspired Tactile Sensing Module. IEEE Sensors Journal, 2017, 17, 3231-3243.	4.7	42

#	Article	IF	Citations
19	In-hand object material characterization with fast level set in log-polar domain and dynamic time warping. , 2017, , .		0
20	3D object recognition from tactile data acquired at salient points. , 2017, , .		2
21	Acquisition and Neural Network Prediction of 3D Deformable Object Shape Using a Kinect and a Force-Torque Sensor. Sensors, 2017, 17, 1083.	3.8	10
22	Wearable Sensor Data Classification for Human Activity Recognition Based on an Iterative Learning Framework. Sensors, 2017, 17, 1287.	3.8	27
23	Tactile Profile Classification Using a Multimodal MEMs-Based Sensing Module. Proceedings (mdpi), 2017, 1, 27.	0.2	4
24	Selectively-densified mesh construction for virtual environments using salient points derived from a computational model of visual attention. , 2017, , .		2
25	Multimodal Bio-Inspired Tactile Sensing Module for Surface Characterization. Sensors, 2017, 17, 1187.	3.8	24
26	Enhanced Visual-Attention Model for Perceptually Improved 3D Object Modeling in Virtual Environments. 3D Research, 2016, 7, 1.	1.8	7
27	Static and Dynamic Hand Gesture Recognition in Depth Data Using Dynamic Time Warping. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 305-316.	4.7	217
28	Natural human-computer interaction using static and dynamic hand gestures. , 2015, , .		12
29	Assessing neural networks for sensor fault detection. , 2014, , .		24
30	3D object modeling with neural gas based selective densification of surface meshes. , 2014, , .		5
31	Building Detection in Aerial Images Based on Watershed and Visual Attention Feature Descriptors. , 2013, , .		9
32	Computational Methods for Selective Acquisition of Depth Measurements in Machine Perception. , 2013, , .		2
33	Evolving sensor environments with visual attention: An experimental exploration. , 2012, , .		0