

Rebecca Marfil

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

322
citations

1163117

8
h-index

940533

16
g-index

49
all docs

49
docs citations

49
times ranked

239
citing authors

#	ARTICLE	IF	CITATIONS
1	Pyramid segmentation algorithms revisited. Pattern Recognition, 2006, 39, 1430-1451.	8.1	69
2	Bounded irregular pyramid: a new structure for color image segmentation. Pattern Recognition, 2004, 37, 623-626.	8.1	22
3	Fast gesture recognition based on a two-level representation. Pattern Recognition Letters, 2009, 30, 1181-1189.	4.2	22
4	Audio-Visual Perception System for a Humanoid Robotic Head. Sensors, 2014, 14, 9522-9545.	3.8	21
5	A novel approach for salient image regions detection and description. Pattern Recognition Letters, 2009, 30, 1464-1476.	4.2	17
6	Real-time object tracking using bounded irregular pyramids. Pattern Recognition Letters, 2007, 28, 985-1001.	4.2	15
7	Real-time human motion analysis for human-robot interaction. , 2005, , .		13
8	Testing a Fully Autonomous Robotic Salesman in Real Scenarios. , 2015, , .		13
9	Part-based object detection into a hierarchy of image segmentations combining color and topology. Pattern Recognition Letters, 2013, 34, 744-753.	4.2	12
10	Combining segmentation and attention: a new foveal attention model. Frontiers in Computational Neuroscience, 2014, 8, 96.	2.1	10
11	A Novel Biologically Inspired Attention Mechanism for a Social Robot. Eurasip Journal on Advances in Signal Processing, 2011, 2011, .	1.7	8
12	Measuring Quality of Service in a Robotized Comprehensive Geriatric Assessment Scenario. Applied Sciences (Switzerland), 2020, 10, 6618.	2.5	8
13	A new paradigm for autonomous human motion description and evaluation: Application to the Get Up & Go test use case. Pattern Recognition Letters, 2019, 118, 51-60.	4.2	7
14	Affine-invariant contours recognition using an incremental hybrid learning approach. Pattern Recognition Letters, 2009, 30, 1310-1320.	4.2	6
15	Towards long term acceptance of Socially Assistive Robots in retirement houses: use case definition. , 2020, , .		6
16	Robot learning of upper-body human motion by active imitation. , 2006, , .		5
17	Combining boundary and region features inside the combinatorial pyramid for topology-preserving perceptual image segmentation. Pattern Recognition Letters, 2012, 33, 2245-2253.	4.2	5
18	Data-Driven Multiresolution Camera Using the Foveal Adaptive Pyramid. Sensors, 2016, 16, 2003.	3.8	5

#	ARTICLE	IF	CITATIONS
19	CLARC: A Cognitive Robot for Helping Geriatric Doctors in Real Scenarios. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 403-414.	0.6	5
20	Affine image region detection and description. <i>Journal of Physical Agents</i> , 2010, 4, 45-54.	0.3	5
21	Fieldwork and Field Trials in Hospitals: Co-Designing A Robotic Solution to Support Data Collection in Geriatric Assessment. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3046.	2.5	4
22	Graph-Based Representations in Pattern Recognition and Computational Intelligence. <i>Lecture Notes in Computer Science</i> , 2009, , 399-406.	1.3	4
23	Incremental Hybrid Approach for Unsupervised Classification: Applications to Visual Landmarks Recognition. <i>Lecture Notes in Computer Science</i> , 2010, , 137-146.	1.3	3
24	Perceptual organization and artificial attention for visual landmarks detection. <i>Cognitive Processing</i> , 2013, 14, 13-18.	1.4	3
25	A Unified Internal Representation of the Outer World for Social Robotics. <i>Advances in Intelligent Systems and Computing</i> , 2016, , 733-744.	0.6	3
26	Comparison of Perceptual Grouping Criteria within an Integrated Hierarchical Framework. <i>Lecture Notes in Computer Science</i> , 2009, , 366-375.	1.3	3
27	An Adaptive Approach for Affine-Invariant 2D Shape Description. <i>Lecture Notes in Computer Science</i> , 2009, , 417-424.	1.3	3
28	Incremental Learning of Visual Landmarks for Mobile Robotics. , 2010, , .		2
29	Visual perception system for a social robot. , 2010, , .		2
30	Hierarchical segmentation of range images inside the combinatorial pyramid. <i>Neurocomputing</i> , 2015, 161, 81-88.	5.9	2
31	Perception-Based Image Segmentation Using the Bounded Irregular Pyramid. , 2007, , 244-253.		2
32	A New Perception-Based Segmentation Approach Using Combinatorial Pyramids. <i>Lecture Notes in Computer Science</i> , 2011, , 327-336.	1.3	2
33	Deep Representations for Collaborative Robotics. <i>Lecture Notes in Computer Science</i> , 2016, , 179-193.	1.3	2
34	A New Cognitive Architecture for Bidirectional Loop Closing. <i>Advances in Intelligent Systems and Computing</i> , 2016, , 721-732.	0.6	1
35	Energy-Based Perceptual Segmentation Using an Irregular Pyramid. <i>Lecture Notes in Computer Science</i> , 2009, , 424-431.	1.3	1
36	LifeBots I: Building the Software Infrastructure for Supporting Lifelong Technologies. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 391-402.	0.6	1

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37	Automatic vergence control based on hierarchical segmentation of stereo pairs. International Journal of Imaging Systems and Technology, 2003, 13, 224-233.	4.1	0
38	A novel hybrid approach to upper-body human motion capture. , 2008, , .		0
39	Curvilinear Image Regions Detection: Applications to Mobile Robotics. Eurasip Journal on Advances in Signal Processing, 2011, 2011, .	1.7	0
40	Segmentation and Classification of Geoenvironmental Zones of Interest in Aerial Images Using the Bounded Irregular Pyramid. Lecture Notes in Computer Science, 2016, , 290-301.	1.3	0
41	Artificial Visual Attention Using Combinatorial Pyramids. , 2013, , 437-455.		0
42	CLARC. Advances in Computational Intelligence and Robotics Book Series, 2020, , 19-41.	0.4	0
43	Artificial Visual Attention Using Combinatorial Pyramids. , 0, , 455-472.		0
44	CLARC. , 2022, , 813-835.		0