

Radu Danescu

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

921
citations

759233

12
h-index

677142

22
g-index

72
all docs

72
docs citations

72
times ranked

710
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling and Tracking the Driving Environment With a Particle-Based Occupancy Grid. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 1331-1342.	8.0	148
2	Probabilistic Lane Tracking in Difficult Road Scenarios Using Stereovision. IEEE Transactions on Intelligent Transportation Systems, 2009, 10, 272-282.	8.0	115
3	Accurate Ego-Vehicle Global Localization at Intersections Through Alignment of Visual Data With Digital Map. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 673-687.	8.0	66
4	A Sensor for Urban Driving Assistance Systems Based on Dense Stereovision. Intelligent Vehicles Symposium, 2009 IEEE, 2007, , .	0.0	46
5	Stereovision-Based Multiple Object Tracking in Traffic Scenarios Using Free-Form Obstacle Delimiters and Particle Filters. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 498-511.	8.0	44
6	Detection and classification of painted road objects for intersection assistance applications. , 2010, , .		32
7	Stereovision Based Vehicle Tracking in Urban Traffic Environments. , 2007, , .		26
8	Driving environment perception using stereovision. , 2005, , .		22
9	Particle Grid Tracking System Stereovision Based Obstacle Perception in Driving Environments. IEEE Intelligent Transportation Systems Magazine, 2012, 4, 6-20.	3.8	22
10	Tracking multiple objects using particle filters and digital elevation maps. , 2009, , .		21
11	Robust Data Association Using Fusion of Data-Driven and Engineered Features for Real-Time Pedestrian Tracking in Thermal Images. Sensors, 2021, 21, 8005.	3.8	20
12	Stop-line detection and localization method for intersection scenarios. , 2011, , .		17
13	High-Speed Video System for Micro-Expression Detection and Recognition. Sensors, 2017, 17, 2913.	3.8	17
14	Lane Geometry Estimation in Urban Environments Using a Stereovision System. , 2007, , .		16
15	Real-time detection of road markings for driving assistance applications. , 2010, , .		16
16	Long Baseline Stereovision for Automatic Detection and Ranging of Moving Objects in the Night Sky. Sensors, 2012, 12, 12940-12963.	3.8	16
17	A Particle-Based Solution for Modeling and Tracking Dynamic Digital Elevation Maps. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1002-1015.	8.0	16
18	Real-Time Detection and Measurement of Eye Features from Color Images. Sensors, 2016, 16, 1105.	3.8	16

#	ARTICLE	IF	CITATIONS
19	Particle grid tracking system for stereovision based environment perception. , 2010, , .		15
20	A stereovision based approach for detecting and tracking lane and forward obstacles on mobile devices. , 2015, , .		14
21	In the Eye of the Deceiver: Analyzing Eye Movements as a Cue to Deception. Journal of Imaging, 2018, 4, 120.	3.0	14
22	New results in stereovision based lane tracking. , 2011, , .		13
23	Miniature Autonomous Vehicle Development on Raspberry Pi. , 2018, , .		13
24	Stereovision-Based Sensor for Intersection Assistance. , 2009, , 129-163.		12
25	Recognizing Human Races through Machine Learningâ€”A Multi-Network, Multi-Features Study. Mathematics, 2021, 9, 195.	2.2	12
26	A stereovision-based probabilistic lane tracker for difficult road scenarios. , 2008, , .		10
27	Real-time dynamic environment perception in driving scenarios using difference fronts. , 2012, , .		10
28	Eyeglasses Lens Contour Extraction from Facial Images Using an Efficient Shape Description. Sensors, 2013, 13, 13638-13658.	3.8	10
29	Automatic extrinsic camera parameters calibration using convolutional neural networks. , 2017, , .		10
30	A Multi Patch Warping Approach for Improved Stereo Block Matching. , 2017, , .		9
31	On-road position estimation by probabilistic integration of visual cues. , 2012, , .		8
32	Mixed road surface model for driving assistance systems. , 2010, , .		7
33	Obstacle Detection Using Dynamic Particle-Based Occupancy Grids. , 2011, , .		7
34	An efficient obstacle awareness application for Android mobile devices. , 2014, , .		7
35	A Self-Calibrating Probabilistic Framework for 3D Environment Perception Using Monocular Vision. Sensors, 2020, 20, 1280.	3.8	7
36	On-board stereo sensor for intersection driving assistance architecture and specification. , 2009, , .		5

#	ARTICLE	IF	CITATIONS
37	A Low Cost Automatic Detection and Ranging System for Space Surveillance in the Medium Earth Orbit Region and Beyond. <i>Sensors</i> , 2014, 14, 2703-2731.	3.8	5
38	Generic Dynamic Environment Perception Using Smart Mobile Devices. <i>Sensors</i> , 2016, 16, 1721.	3.8	5
39	Automatic recognition of low earth orbit objects from image sequences. , 2011, , .		4
40	A Lane Assessment Method Using Visual Information Based on a Dynamic Bayesian Network. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2015, 19, 225-239.	4.2	4
41	A Stereovision-Based Lane Detector for Marked and Non-Marked Urban Roads. , 2007, , .		3
42	Environment perception using dynamic polylines and particle based occupancy grids. , 2011, , .		3
43	Flexible solution for modeling and tracking generic dynamic 3D environments. , 2013, , .		3
44	Modeling and tracking of crowded traffic scenes by using policy trees, occupancy grid blocks and Bayesian filters. , 2014, , .		3
45	Real-time micro-expression detection from high speed cameras. , 2017, , .		3
46	SST Anywhere”A Portable Solution for Wide Field Low Earth Orbit Surveillance. <i>Remote Sensing</i> , 2022, 14, 1905.	4.0	3
47	Global map building based on occupancy grids detected from dense stereo in urban environments. , 2009, , .		2
48	Long baseline stereoscopic imager for close to Earth objects range measurements. <i>Acta Astronautica</i> , 2013, 90, 41-48.	3.2	2
49	Tracking multiple objects in traffic scenarios using free-form obstacle delimiters and particle filters. , 2013, , .		2
50	Patch warping and local constraints for improved block matching stereo correspondence. , 2016, , .		2
51	Automatic Detection of Tumor Cells in Microscopic Images of Unstained Blood using Convolutional Neural Networks. , 2018, , .		2
52	Camera Calibration for CNN Based Generic Obstacle Detection. <i>Lecture Notes in Computer Science</i> , 2019, , 623-636.	1.3	2
53	MONet - Multiple Output Network for Driver Assistance Systems Based on a Monocular Camera. , 2020, , .		2
54	Part-Based Obstacle Detection Using a Multiple Output Neural Network. <i>Sensors</i> , 2022, 22, 4312.	3.8	2

#	ARTICLE	IF	CITATIONS
55	Adaptive and robust road tracking system based on stereovision and particle filtering. , 2008, , .		1
56	Intersection representation enhancement by sensorial data and digital map alignment. , 2010, , .		1
57	Surveillance of medium and high Earth orbits using large baseline stereovision. , 2014, , .		1
58	Generic method for real-time satellite detection using optical acquisition systems. , 2014, , .		1
59	Sensing the driving environment with smart mobile devices. , 2015, , .		1
60	Eye Shape and Corners Detection in Periocular Images Using Particle Filters. , 2016, , .		1
61	Obstacle Detection Using a Voxel Octree Representation. , 2019, , .		1
62	PartID – Individual Objects Tracking in Occupancy Grids Using Particle Identities. , 2020, , .		1
63	Compact Solution for Low Earth Orbit Surveillance. , 2021, , .		1
64	A flexible solution for detection and tracking of multiple objects. , 2009, , .		0
65	Eyeglasses contour extraction using genetic algorithms. , 2015, , .		0
66	Generic Obstacle Detection for Mobile Devices Using a Dynamic Intermediate Representation. Advances in Intelligent Systems and Computing, 2016, , 629-639.	0.6	0
67	Dynamic 3D Environment Perception Using Monocular Vision and Semantic Segmentation. , 2019, , .		0
68	Fast Eye Tracking and Feature Measurement using a Multi-stage Particle Filter. , 2017, , .		0
69	Analysing Facial Features Using CNNs and Computer Vision. Communications in Computer and Information Science, 2020, , 146-157.	0.5	0
70	Object detection using part based semantic segmentation. , 2021, , .		0