

Cristiano Premebida

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,413
citations

933447

10
h-index

1125743

13
g-index

47
all docs

47
docs citations

47
times ranked

1433
citing authors

#	ARTICLE	IF	CITATIONS
1	3D Lidar-based static and moving obstacle detection in driving environments: An approach based on voxels and multi-region ground planes. <i>Robotics and Autonomous Systems</i> , 2016, 83, 299-311.	5.1	181
2	LIDAR and vision-based pedestrian detection system. <i>Journal of Field Robotics</i> , 2009, 26, 696-711.	6.0	156
3	Multimodal vehicle detection: fusing 3D-LIDAR and color camera data. <i>Pattern Recognition Letters</i> , 2018, 115, 20-29.	4.2	148
4	A Lidar and Vision-based Approach for Pedestrian and Vehicle Detection and Tracking. , 2007, , .		121
5	Pedestrian detection combining RGB and dense LIDAR data. , 2014, , .		120
6	Pedestrian detection in far infrared images. <i>Integrated Computer-Aided Engineering</i> , 2013, 20, 347-360.	4.6	79
7	A probabilistic approach for human everyday activities recognition using body motion from RGB-D images. , 2014, , .		56
8	Exploiting LIDAR-based features on pedestrian detection in urban scenarios. , 2009, , .		55
9	DepthCN: Vehicle detection using 3D-LIDAR and ConvNet. , 2017, , .		53
10	Fusing LIDAR, camera and semantic information: A context-based approach for pedestrian detection. <i>International Journal of Robotics Research</i> , 2013, 32, 371-384.	8.5	50
11	High-resolution LIDAR-based depth mapping using bilateral filter. , 2016, , .		43
12	Dynamic Bayesian network for semantic place classification in mobile robotics. <i>Autonomous Robots</i> , 2017, 41, 1161-1172.	4.8	26
13	Affective facial expressions recognition for human-robot interaction. , 2017, , .		26
14	Multimodal CNN Pedestrian Classification: A Study on Combining LIDAR and Camera Data. , 2018, , .		25
15	Multimodal Deep-Learning for Object Recognition Combining Camera and LIDAR Data. , 2020, , .		23
16	Probabilistic human daily activity recognition towards robot-assisted living. , 2015, , .		21
17	Road Detection Using High Resolution LIDAR. , 2014, , .		20
18	Simultaneous Segmentation and Superquadrics Fitting in Laser-Range Data. <i>IEEE Transactions on Vehicular Technology</i> , 2015, 64, 441-452.	6.3	20

#	ARTICLE	IF	CITATIONS
19	A cascade classifier applied in pedestrian detection using laser and image-based features. , 2010, , .		19
20	High-order conditional mutual information maximization for dealing with high-order dependencies in feature selection. Pattern Recognition, 2022, 131, 108895.	8.1	16
21	Country-level pandemic risk and preparedness classification based on COVID-19 data: A machine learning approach. PLoS ONE, 2020, 15, e0241332.	2.5	15
22	Improving the Generalization Capacity of Cascade Classifiers. IEEE Transactions on Cybernetics, 2013, 43, 2135-2146.	9.5	14
23	Applying probabilistic Mixture Models to semantic place classification in mobile robotics. , 2015, , .		14
24	Evaluation of Boosting-SVM and SRM-SVM cascade classifiers in laser and vision-based pedestrian detection. , 2011, , .		11
25	3D point cloud downsampling for 2D indoor scene modelling in mobile robotics. , 2017, , .		11
26	An RRT-based navigation approach for mobile robots and automated vehicles. , 2014, , .		9
27	CNN-based Human Detection Using a 3D LiDAR onboard a UAV. , 2020, , .		9
28	An innovative robotic walker for mobility assistance and lower limbs rehabilitation. , 2017, , .		8
29	Real-Time Deep ConvNet-Based Vehicle Detection Using 3D-LIDAR Reflection Intensity Data. Advances in Intelligent Systems and Computing, 2018, , 475-486.	0.6	8
30	Intelligent Robotic Perception Systems. , 0, , .		8
31	RGB-D Object Classification for Autonomous Driving Perception. Advances in Computer Vision and Pattern Recognition, 2019, , 377-395.	1.3	8
32	Can stereo vision replace a Laser Rangefinder?. , 2012, , .		7
33	ISR-RobotHead: Robotic head with LCD-based emotional expressiveness. , 2017, , .		5
34	CNN-LIDAR pedestrian classification: combining range and reflectance data. , 2018, , .		5
35	Mobile Robot Localization with Reinforcement Learning Map Update Decision aided by an Absolute Indoor Positioning System. , 2019, , .		5
36	Look and Listen: A Multi-modality Late Fusion Approach to Scene Classification for Autonomous Machines. , 2020, , .		5

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37	Reducing Overconfidence Predictions in Autonomous Driving Perception. IEEE Access, 2022, 10, 54805-54821.	4.2	3
38	Polar-Grid Representation and Kriging-Based 2.5D Interpolation for Urban Environment Modelling. , 2015, , .		2
39	HMAPs - Hybrid Height- Voxel Maps for Environment Representation. , 2018, , .		2
40	Overcoming Data Scarcity in Speaker Identification: Dataset Augmentation with Synthetic MFCCs via Character-level RNN. , 2020, , .		2
41	Novelty Detection for Iterative Learning of MIMO Fuzzy Systems. , 2021, , .		2
42	Short-range gait pattern analysis for potential applications on assistive robotics. , 2017, , .		1
43	Semantic Feature Mining for 3D Object Classification and Segmentation. , 2021, , .		1
44	Dynamic Bayesian Network for Time-Dependent Classification Problems in Robotics. , 0, , .		0
45	Cooperative ITS Challenges: AUTOCITS Pilot in Lisbon. , 2018, , .		0
46	Multimodal Bayesian Network for Artificial Perception. , 0, , .		0
47	Improving Localization by Learning Pole-Like Landmarks Using a Semi-supervised Approach. Advances in Intelligent Systems and Computing, 2020, , 255-266.	0.6	0