

David Fernández-Llorca

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

2,233
citations

361296

20
h-index

289141

40
g-index

82
all docs

82
docs citations

82
times ranked

2034
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive Road Crack Detection System by Pavement Classification. Sensors, 2011, 11, 9628-9657.	2.1	259
2	Autonomous Pedestrian Collision Avoidance Using a Fuzzy Steering Controller. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 390-401.	4.7	152
3	Combination of Feature Extraction Methods for SVM Pedestrian Detection. IEEE Transactions on Intelligent Transportation Systems, 2007, 8, 292-307.	4.7	135
4	Intelligent automatic overtaking system using vision for vehicle detection. Expert Systems With Applications, 2012, 39, 3362-3373.	4.4	107
5	Pedestrian Path, Pose, and Intention Prediction Through Gaussian Process Dynamical Models and Pedestrian Activity Recognition. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1803-1814.	4.7	95
6	Vehicle logo recognition in traffic images using HOG features and SVM. , 2013, , .		82
7	The Benefits of Dense Stereo for Pedestrian Detection. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 1096-1106.	4.7	78
8	Accurate Global Localization Using Visual Odometry and Digital Maps on Urban Environments. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 1535-1545.	4.7	76
9	Automatic Traffic Signs and Panels Inspection System Using Computer Vision. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 485-499.	4.7	61
10	Vision-based vehicle speed estimation: A survey. IET Intelligent Transport Systems, 2021, 15, 987-1005.	1.7	47
11	Night time vehicle detection for driving assistance lightbeam controller. , 2008, , .		45
12	Automatic LightBeam Controller for driver assistance. Machine Vision and Applications, 2011, 22, 819-835.	1.7	42
13	Stereo regions-of-interest selection for pedestrian protection: A survey. Transportation Research Part C: Emerging Technologies, 2012, 25, 226-237.	3.9	40
14	Pedestrian path prediction using body language traits. , 2014, , .		39
15	A vision-based system for automatic hand washing quality assessment. Machine Vision and Applications, 2011, 22, 219-234.	1.7	37
16	An Experimental Study on Pitch Compensation in Pedestrian-Protection Systems for Collision Avoidance and Mitigation. IEEE Transactions on Intelligent Transportation Systems, 2009, 10, 469-474.	4.7	36
17	Robust visual odometry for vehicle localization in urban environments. Robotica, 2010, 28, 441-452.	1.3	35
18	Drowsiness monitoring based on driver and driving data fusion. , 2011, , .		34

#	ARTICLE	IF	CITATIONS
19	Deep fully convolutional networks with random data augmentation for enhanced generalization in road detection. , 2017, , .		32
20	Error Analysis in a Stereo Vision-Based Pedestrian Detection Sensor for Collision Avoidance Applications. Sensors, 2010, 10, 3741-3758.	2.1	31
21	Pedestrian Intention and Pose Prediction through Dynamical Models and Behaviour Classification. , 2015, , .		31
22	Pedestrian path prediction based on body language and action classification. , 2014, , .		30
23	Vehicle model recognition using geometry and appearance of car emblems from rear view images. , 2014, , .		30
24	Two-camera based accurate vehicle speed measurement using average speed at a fixed point. , 2016, , .		30
25	Vision-based active safety system for automatic stopping. Expert Systems With Applications, 2012, 39, 11234-11242.	4.4	27
26	RNN-based Pedestrian Crossing Prediction using Activity and Pose-related Features. , 2020, , .		26
27	Complete Vision-Based Traffic Sign Recognition Supported by an I2V Communication System. Sensors, 2012, 12, 1148-1169.	2.1	25
28	Free space and speed humps detection using lidar and vision for urban autonomous navigation. , 2012, , .		25
29	Traffic Data Collection for Floating Car Data Enhancement in V2I Networks. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.0	24
30	Hierarchical camera auto-calibration for traffic surveillance systems. Expert Systems With Applications, 2014, 41, 1532-1542.	4.4	23
31	Clavileño: Evolution of an autonomous car. , 2010, , .		22
32	3D Visual Odometry for Road Vehicles. Journal of Intelligent and Robotic Systems: Theory and Applications, 2008, 51, 113-134.	2.0	21
33	Visual odometry and map fusion for GPS navigation assistance. , 2011, , .		21
34	Road curb and lanes detection for autonomous driving on urban scenarios. , 2014, , .		21
35	Robust traffic signs detection by means of vision and V2I communications. , 2011, , .		19
36	Extended Floating Car Data System: Experimental Results and Application for a Hybrid Route Level of Service. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 25-35.	4.7	19

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37	Detection of Range-Based Rail Gage and Missing Rail Fasteners. Transportation Research Record, 2014, 2448, 125-132.	1.0	19
38	Vision-Based Traffic Data Collection Sensor for Automotive Applications. Sensors, 2010, 10, 860-875.	2.1	18
39	The Experience of DRIVERTIVE-DRIVERless cooperative Vehicle-Team in the 2016 GCDC. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 1322-1334.	4.7	18
40	Assistive Intelligent Transportation Systems: The Need for User Localization and Anonymous Disability Identification. IEEE Intelligent Transportation Systems Magazine, 2017, 9, 25-40.	2.6	17
41	Real-time vision-based blind spot warning system: Experiments with motorcycles in daytime/nighttime conditions. International Journal of Automotive Technology, 2013, 14, 113-122.	0.7	16
42	A Hybrid Vision-Map Method for Urban Road Detection. Journal of Advanced Transportation, 2017, 2017, 1-21.	0.9	16
43	Video Action Recognition for Lane-Change Classification and Prediction of Surrounding Vehicles. IEEE Transactions on Intelligent Vehicles, 2022, 7, 569-578.	9.4	16
44	Dense Stereo-Based ROI Generation for Pedestrian Detection. Lecture Notes in Computer Science, 2009, , 81-90.	1.0	15
45	Autonomous Navigation and Obstacle Avoidance of a Micro-Bus. International Journal of Advanced Robotic Systems, 2013, 10, 212.	1.3	15
46	Curvature-based curb detection method in urban environments using stereo and laser. , 2015, , .		15
47	Recognizing individuals in groups in outdoor environments combining stereo vision, RFID and BLE. Cluster Computing, 2017, 20, 769-779.	3.5	15
48	CAPformer: Pedestrian Crossing Action Prediction Using Transformer. Sensors, 2021, 21, 5694.	2.1	15
49	Perception advances in outdoor vehicle detection for automatic cruise control. Robotica, 2010, 28, 765-779.	1.3	11
50	A Comparative Analysis of Decision Trees Based Classifiers for Road Detection in Urban Environments. , 2015, , .		11
51	Real-Time Vision-Based Vehicle Detection for Rear-End Collision Mitigation Systems. Lecture Notes in Computer Science, 2009, , 320-325.	1.0	11
52	A multi-class SVM classifier for automatic hand washing quality assessment. , 2007, , .		11
53	"XPFCP": an extended particle filter for tracking multiple and dynamic objects in complex environments. , 2005, , .		10
54	Face tracking with automatic model construction. Image and Vision Computing, 2011, 29, 209-218.	2.7	10

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55	Automatic training method applied to a WiFi+ultrasound POMDP navigation system. <i>Robotica</i> , 2009, 27, 1049-1061.	1.3	9
56	Parking Assistance System for Leaving Perpendicular Parking Lots: Experiments in Daytime/Nighttime Conditions. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2014, 6, 57-68.	2.6	8
57	Assistive Pedestrian Crossings by Means of Stereo Localization and RFID Anonymous Disability Identification. , 2015, , .		8
58	Stereo-based Pedestrian Detection in Crosswalks for Pedestrian Behavioural Modelling Assessment. , 2014, , .		8
59	Fail-Aware LIDAR-Based Odometry for Autonomous Vehicles. <i>Sensors</i> , 2020, 20, 4097.	2.1	7
60	Bounding Box Accuracy in Pedestrian Detection for Intelligent Transportation Systems. <i>Industrial Electronics Society (IECON), Annual Conference of IEEE</i> , 2006, , .	0.0	6
61	Camera auto-calibration using zooming and zebra-crossing for traffic monitoring applications. , 2013, , .		6
62	Comparison between UHF RFID and BLE for Stereo-Based Tag Association in Outdoor Scenarios. , 2016, , .		6
63	Vehicle Lane Change Prediction on Highways Using Efficient Environment Representation and Deep Learning. <i>IEEE Access</i> , 2021, 9, 119454-119465.	2.6	6
64	Testing Predictive Automated Driving Systems: Lessons Learned and Future Recommendations. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2022, 14, 77-93.	2.6	6
65	High-Level Interpretation of Urban Road Maps Fusing Deep Learning-Based Pixelwise Scene Segmentation and Digital Navigation Maps. <i>Journal of Advanced Transportation</i> , 2018, 2018, 1-15.	0.9	5
66	Simple Baseline for Vehicle Pose Estimation: Experimental Validation. <i>IEEE Access</i> , 2020, 8, 132539-132550.	2.6	5
67	Are We Ready for Accurate and Unbiased Fine-Grained Vehicle Classification in Realistic Environments?. <i>IEEE Access</i> , 2021, 9, 116338-116355.	2.6	5
68	Vision-based parking assistance system for leaving perpendicular and angle parking lots. , 2013, , .		4
69	Fusing directional passive UHF RFID and stereo vision for tag association in outdoor scenarios. , 2016, , .		4
70	CNNs for Fine-Grained Car Model Classification. <i>Lecture Notes in Computer Science</i> , 2020, , 104-112.	1.0	4
71	Visual odometry for road vehiclesâ€”feasibility analysis. <i>Journal of Zhejiang University: Science A</i> , 2007, 8, 2017-2020.	1.3	3
72	Extended Floating Car Data system - experimental study. , 2011, , .		3

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73	Monocular target detection on transport infrastructures with dynamic and variable environments. , 2012, , .		3
74	Monocular Vision-Based Target Detection on Dynamic Transport Infrastructures. Lecture Notes in Computer Science, 2012, , 576-583.	1.0	3
75	Sensors and Sensing for Intelligent Vehicles. Sensors, 2020, 20, 5115.	2.1	2
76	Personal Rapid Transport System Compatible With Current Railways and Metros Infrastructure. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2891-2901.	4.7	2
77	Surface Classification for Road Distress Detection System Enhancement. Lecture Notes in Computer Science, 2012, , 600-607.	1.0	2
78	Future trends of ITS in difficult times: A message from the new Editorâ€”inâ€”Chief of IET Intelligent Transport Systems. IET Intelligent Transport Systems, 2020, 14, 469-470.	1.7	1
79	Automatic Thermal Leakage Detection in Building Facades Using Laser and Thermal Images. Lecture Notes in Computer Science, 2013, , 71-78.	1.0	1
80	3D-Visual Detection of Multiple Objects and Structural Features in Complex and Dynamic Indoor Environments. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	0
81	WiFi-based urban localisation using CNNs. , 2019, , .		0