José M Armingol

List of Publications by Year
in descending order

86 papers	**2,873** citations	257450 **24** h-index	182427 **51** g-index
92 all docs	**92** docs citations	**92** times ranked	**2441** citing authors

#	Article	IF	Citations
1	Road traffic sign detection and classification. IEEE Transactions on Industrial Electronics, 1997, 44, 848-859.	7.9	435
2	Traffic sign recognition and analysis for intelligent vehicles. Image and Vision Computing, 2003, 21, 247-258.	4.5	361
3	Visual Sign Information Extraction and Identification by Deformable Models for Intelligent Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2004, 5, 57-68.	8.0	183
4	Survey of computer vision algorithms and applications for unmanned aerial vehicles. Expert Systems With Applications, 2018, 92, 447-463.	7.6	147
5	Automatic Chessboard Detection for Intrinsic and Extrinsic Camera Parameter Calibration. Sensors, 2010, 10, 2027-2044.	3.8	116
6	Advanced Driver Assistance System for Road Environments to Improve Safety and Efficiency. Transportation Research Procedia, 2016, 14, 2245-2254.	1.5	92
7	Sensor Fusion Methodology for Vehicle Detection. IEEE Intelligent Transportation Systems Magazine, 2017, 9, 123-133.	3.8	83
8	A Genetic Algorithm for Mobile Robot Localization Using Ultrasonic Sensors. Journal of Intelligent and Robotic Systems: Theory and Applications, 2002, 34, 135-154.	3.4	81
9	Pedestrian detection in far infrared images. Integrated Computer-Aided Engineering, 2013, 20, 347-360.	4.6	79
10	Obstacle Detection and Avoidance System Based on Monocular Camera and Size Expansion Algorithm for UAVs. Sensors, 2017, 17, 1061.	3.8	79
11	P2V and V2P communication for Pedestrian warning on the basis of Autonomous Vehicles. , 2016, , .		76
12	Real-Time Warning System for Driver Drowsiness Detection Using Visual Information. Journal of Intelligent and Robotic Systems: Theory and Applications, 2010, 59, 103-125.	3.4	69
13	Driver Drowsiness Warning System Using Visual Information for Both Diurnal and Nocturnal Illumination Conditions. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.7	55
14	Data fusion for overtaking vehicle detection based on radar and optical flow. , 2012, , .		55
15	Data Fusion for Driver Behaviour Analysis. Sensors, 2015, 15, 25968-25991.	3.8	55
16	Identifying and Tracking Pedestrians Based on Sensor Fusion and Motion Stability Predictions. Sensors, 2010, 10, 8028-8053.	3.8	45
17	An Appearance-Based Tracking Algorithm for Aerial Search and Rescue Purposes. Sensors, 2019, 19, 652.	3.8	41
18	IVVI: Intelligent vehicle based on visual information. Robotics and Autonomous Systems, 2007, 55, 904-916.	5.1	36

#	Article	IF	Citations
19	Context aided pedestrian detection for danger estimation based on laser scanner and computer vision. Expert Systems With Applications, 2014, 41, 6646-6661.	7.6	36
20	Context-Aided Sensor Fusion for Enhanced Urban Navigation. Sensors, 2012, 12, 16802-16837.	3.8	35
21	Driver Monitoring Based on Low-Cost 3-D Sensors. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1855-1860.	8.0	34
22	Contrast invariant features for human detection in far infrared images. , 2012, , .		30
23	Environment perception based on LIDAR sensors for real road applications. Robotica, 2012, 30, 185-193.	1.9	30
24	IVVI 2.0: An intelligent vehicle based on computational perception. Expert Systems With Applications, 2014, 41, 7927-7944.	7.6	30
25	Distributed Pedestrian Detection Alerts Based on Data Fusion with Accurate Localization. Sensors, 2013, 13, 11687-11708.	3.8	27
26	Improved LiDAR Probabilistic Localization for Autonomous Vehicles Using GNSS. Sensors, 2020, 20, 3145.	3.8	26
27	Statistical Pattern Modeling in Vision-Based Quality Control Systems. Journal of Intelligent and Robotic Systems: Theory and Applications, 2003, 37, 321-336.	3.4	24
28	Driver drowsiness detection system under infrared illumination for an intelligent vehicle. IET Intelligent Transport Systems, 2011, 5, 241-251.	3.0	24
29	Abnormal behavior detection using dominant sets. Machine Vision and Applications, 2014, 25, 1351-1368.	2.7	24
30	Fast Joint Object Detection and Viewpoint Estimation for Traffic Scene Understanding. IEEE Intelligent Transportation Systems Magazine, 2018, 10, 74-86.	3.8	24
31	Continuous mobile robot localization by using structured light and a geometric map. International Journal of Systems Science, 1996, 27, 771-782.	5.5	23
32	Far infrared pedestrian detection and tracking for night driving. Robotica, 2011, 29, 495-505.	1.9	22
33	Traffic scene awareness for intelligent vehicles using ConvNets and stereo vision. Robotics and Autonomous Systems, 2019, 112, 109-122.	5.1	21
34	Intelligent surveillance of indoor environments based on computer vision and 3D point cloud fusion. Expert Systems With Applications, 2015, 42, 8156-8171.	7.6	20
35	Pedestrian Detection for Intelligent Vehicles Based on Active Contour Models and Stereo Vision. Lecture Notes in Computer Science, 2005, , 537-542.	1.3	20
36	Real-time drowsiness detection system for an intelligent vehicle. , 2008, , .		19

#	Article	IF	Citations
37	Adaptative Road Lanes Detection and Classification. Lecture Notes in Computer Science, 2006, , 1151-1162.	1.3	18
38	U-V Disparity Analysis in Urban Environments. Lecture Notes in Computer Science, 2012, , 426-432.	1.3	15
39	Stereo visual odometry in urban environments based on detecting ground features. Robotics and Autonomous Systems, 2016, 80, 1-10.	5.1	15
40	Back-propagation of the Mahalanobis istance through a deep triplet learning model for person Re-Identification. Integrated Computer-Aided Engineering, 2021, 28, 277-294.	4.6	14
41	Object learning and detection using evolutionary deformable models for mobile robot navigation. Robotica, 2008, 26, 99-107.	1.9	13
42	Limitations of positioning systems for developing digital maps and locating vehicles according to the specifications of future driver assistance systems. IET Intelligent Transport Systems, 2011, 5, 60-69.	3.0	13
43	Can Low-Cost Road Vehicles Positioning Systems Fulfil Accuracy Specifications of New ADAS Applications?. Journal of Navigation, 2011, 64, 251-264.	1.7	13
44	Recognition Stage for a Speed Supervisor Based on Road Sign Detection. Sensors, 2012, 12, 12153-12168.	3.8	13
45	Detection and classification of road signs for automatic inventory systems using computer vision. Integrated Computer-Aided Engineering, 2012, 19, 285-298.	4.6	12
46	A vision-based navigation system for Unmanned Aerial Vehicles (UAVs). Integrated Computer-Aided Engineering, 2019, 26, 297-310.	4.6	12
47	Vehicle Detection Based on Laser Radar. Lecture Notes in Computer Science, 2009, , 391-397.	1.3	12
48	Project ARES: Driverless Transportation System. Challenges and Approaches in an Unstructured Road. Electronics (Switzerland), 2021, 10, 1753.	3.1	9
49	Fusion procedure for pedestrian detection based on laser scanner and computer vision. , 2011, , .		8
50	Laser Scanner and Camera Fusion for Automatic Obstacle Classification in ADAS Application. Communications in Computer and Information Science, 2015, , 237-249.	0.5	7
51	Homography-Based Navigation System for Unmanned Aerial Vehicles. Lecture Notes in Computer Science, 2017, , 288-300.	1.3	7
52	Hybrid Optimization-Based Approach for Multiple Intelligent Vehicles Requests Allocation. Journal of Advanced Transportation, 2018, 2018, 1-11.	1.7	7
53	Pedestrian Detection and Tracking Based on Far Infrared Visual Information. Lecture Notes in Computer Science, 2008, , 958-969.	1.3	7
54	Mobile Robot Navigation Based on Visual Landmark Recognition. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 185-190.	0.4	6

#	Article	IF	Citations
55	Enhanced obstacle detection based on Data Fusion for ADAS applications. , 2013, , .		6
56	Environmental Perception for Intelligent Vehicles. , 2018, , 23-101.		6
57	Deep Learning of Appearance Affinity for Multi-Object Tracking and Re-Identification: A Comparative View. Electronics (Switzerland), 2020, 9, 1757.	3.1	6
58	Real-Time Pedestrian Recognition in Urban Environments. , 2011, , 139-147.		6
59	Mobile robot localization using a non-linear evolutionary filter. Advanced Robotics, 2002, 16, 629-652.	1.8	5
60	Hybrid fusion scheme for pedestrian detection based on laser scanner and far infrared camera. , 2010, , .		5
61	Visual ego motion estimation in urban environments based on U-V disparity. , 2012, , .		5
62	Joint Probabilistic Data Association fusion approach for pedestrian detection. , 2013, , .		5
63	Pose Self-Calibration of Stereo Vision Systems for Autonomous Vehicle Applications. Sensors, 2016, 16, 1492.	3.8	5
64	Multi-resolution Image Analysis for Vehicle Detection. Lecture Notes in Computer Science, 2005, , 579-586.	1.3	4
65	Driving supervision through traffic sign analysis. , 2008, , .		4
66	Modeling Traffic Scenes for Intelligent Vehicles Using CNN-Based Detection and Orientation Estimation. Advances in Intelligent Systems and Computing, 2018, , 487-498.	0.6	4
67	SIFT and SURF Performance Evaluation and the Effect of FREAK Descriptor in the Context of Visual Odometry for Unmanned Aerial Vehicles. Lecture Notes in Computer Science, 2015, , 739-747.	1.3	4
68	Balancing People Re-Identification Data for Deep Parts Similarity Learning. Journal of Imaging Science and Technology, 2019, 63, 020401-1-020401-14.	0.5	4
69	Deep Part Features Learning by a Normalised Double-Margin-Based Contrastive Loss Function for Person Re-Identification. , 2017, , .		4
70	Deep Parts Similarity Learning for Person Re-Identification. , 2018, , .		4
71	Vehicle detection and tracking for visual understanding of road environments. Robotica, 2010, 28, 847-860.	1.9	3
72	Discrete features for rapid pedestrian detection in infrared images. , 2012, , .		3

#	Article	IF	Citations
73	Continuous pose estimation for stereo vision based on UV disparity applied to visual odometry in urban environments. , 2014, , .		3
74	Dataset Construction from Naturalistic Driving in Roundabouts. Sensors, 2020, 20, 7151.	3.8	3
75	Intelligent Video Surveillance Systems for Vehicle Identification Based on Multinet Architecture. Information (Switzerland), 2022, 13, 325.	2.9	3
76	Autonomous Vehicle Architecture for High Automation. Lecture Notes in Computer Science, 2020, , 145-152.	1.3	2
77	New Probability Models for Face Detection and Tracking in Color Images. , 2007, , .		1
78	Part based pedestrian detection based on Logic inference. , 2013, , .		1
79	Mobile based pedestrian detection with accurate tracking. , 2016, , .		1
80	Stereo Visual Odometry for Urban Vehicles Using Ground Features. Advances in Intelligent Systems and Computing, 2016, , 385-397.	0.6	1
81	Cooperative Systems for Autonomous Vehicles. Journal of Advanced Transportation, 2018, 2018, 1-1.	1.7	1
82	Detección Automática de un Patrón para la Calibración Automática de Cámaras. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2010, 7, 83-94.	1.0	1
83	Phase Spread Segmentation of Pedestrians in Far Infrared Images. , 2011, , 129-138.		1
84	Hierarchical generator of tracking global hypotheses. Expert Systems With Applications, 2022, 206, 117813.	7.6	1
85	Data Fusion Enhanced with Context Information for Road Safety Application. Advances in Computer Vision and Pattern Recognition, 2016, , 653-674.	1.3	0
86	Study of the Effect of Exploiting 3D Semantic Segmentation in LiDAR Odometry. Applied Sciences (Switzerland), 2020, 10, 5657.	2.5	0