

Jorge Villagra

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59
papers

1,196
citations

18
h-index

33
g-index

64
ext. papers

1,466
ext. citations

3.7
avg, IF

4.47
L-index

#	Paper	IF	Citations
59	Merit-Based Motion Planning for Autonomous Vehicles in Urban Scenarios. <i>Sensors</i> , 2021 , 21,	3.8	3
58	A Grid-Based Framework for Collective Perception in Autonomous Vehicles. <i>Sensors</i> , 2021 , 21,	3.8	4
57	Interaction-Aware Intention Estimation at Roundabouts. <i>IEEE Access</i> , 2021 , 9, 123088-123102	3.5	3
56	Jerk-Limited Time-Optimal Speed Planning for Arbitrary Paths. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-15	6.1	3
55	Ground Segmentation Algorithm for Sloped Terrain and Sparse LiDAR Point Cloud. <i>IEEE Access</i> , 2021 , 9, 132914-132927	3.5	0
54	Motion Planning Approach Considering Localization Uncertainty. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 5983-5994	6.8	13
53	Self-Generated OSM-Based Driving Corridors. <i>IEEE Access</i> , 2019 , 7, 20113-20125	3.5	14
52	Real-Time Motion Planning Approach for Automated Driving in Urban Environments. <i>IEEE Access</i> , 2019 , 7, 180039-180053	3.5	18
51	Automated Driving 2018 , 275-342		2
50	A Primitive Comparison for Traffic-Free Path Planning. <i>IEEE Access</i> , 2018 , 6, 28801-28817	3.5	16
49	Smooth path planning for urban autonomous driving using OpenStreetMaps 2017 ,		5
48	A Review of the Bayesian Occupancy Filter. <i>Sensors</i> , 2017 , 17,	3.8	14
47	A Comparison of FPGA and GPGPU Designs for Bayesian Occupancy Filters. <i>Sensors</i> , 2017 , 17,	3.8	1
46	Advanced Co-simulation Framework for Cooperative Maneuvers Among Vehicles 2015 ,		3
45	A DRIVERLESS VEHICLE DEMONSTRATION ON MOTORWAYS AND IN URBAN ENVIRONMENTS. <i>Transport</i> , 2015 , 30, 253-263	1.4	23
44	Experimental Application of Hybrid Fractional-Order Adaptive Cruise Control at Low Speed. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 2329-2336	4.8	43
43	Self-Configuration of Waypoints for Docking Maneuvers of Flexible Automated Guided Vehicles. <i>IEEE Transactions on Automation Science and Engineering</i> , 2013 , 10, 470-475	4.9	11

42	An auxiliary V2I network for road transport and dynamic environments. <i>Transportation Research Part C: Emerging Technologies</i> , 2013 , 37, 145-156	8.4	12
41	Cooperative controllers for highways based on human experience. <i>Expert Systems With Applications</i> , 2013 , 40, 1024-1033	7.8	25
40	On-line learning of a fuzzy controller for a precise vehicle cruise control system. <i>Expert Systems With Applications</i> , 2013 , 40, 1046-1053	7.8	21
39	Fractional Network-Based Control for Vehicle Speed Adaptation via Vehicle-to-Infrastructure Communications. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 780-790	4.8	13
38	Trajectory generator for autonomous vehicles in urban environments 2013 ,		34
37	Virtual Vehicle Approach for Longitudinal Control in Urban Environments. <i>Lecture Notes in Computer Science</i> , 2013 , 25-32	0.9	1
36	Nearly-Time Optimal Smooth Path Planning Using Continuous Curvature Derivative Primitives. <i>Lecture Notes in Computer Science</i> , 2013 , 1-8	0.9	
35	Intelligent automatic overtaking system using vision for vehicle detection. <i>Expert Systems With Applications</i> , 2012 , 39, 3362-3373	7.8	80
34	Vision-based active safety system for automatic stopping. <i>Expert Systems With Applications</i> , 2012 , 39, 11234-11242	7.8	25
33	Smooth path and speed planning for an automated public transport vehicle. <i>Robotics and Autonomous Systems</i> , 2012 , 60, 252-265	3.5	90
32	An Intelligent V2I-Based Traffic Management System. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2012 , 13, 49-58	6.1	112
31	A Comparison of Control Techniques for Robust Docking Maneuvers of an AGV. <i>IEEE Transactions on Control Systems Technology</i> , 2012 , 20, 1116-1123	4.8	39
30	. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 620-628	8.9	45
29	Traffic jam driving with NMV avoidance. <i>Mechanical Systems and Signal Processing</i> , 2012 , 31, 332-344	7.8	7
28	Comparing Fuzzy and Intelligent PI Controllers in Stop-and-Go Manoeuvres. <i>IEEE Transactions on Control Systems Technology</i> , 2012 , 20, 770-778	4.8	36
27	Driving by Driverless Vehicles in Urban Environment. <i>Lecture Notes in Computer Science</i> , 2012 , 404-411	0.9	
26	Genetic optimization of a vehicle fuzzy decision system for intersections. <i>Expert Systems With Applications</i> , 2012 , 39, 13148-13157	7.8	46
25	A Reinforcement Learning Modular Control Architecture for Fully Automated Vehicles. <i>Lecture Notes in Computer Science</i> , 2012 , 390-397	0.9	2

24	Data-driven fractional PID control: application to DC motors in flexible joints. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 709-714		8
23	Study of Traffic Flow Controlled with Independent Agent-Based Traffic Signals. <i>Lecture Notes in Computer Science</i> , 2012 , 382-389	0.9	
22	Traffic Light Intelligent Regulation Using Infrastructure Located Sensors. <i>Lecture Notes in Computer Science</i> , 2012 , 398-403	0.9	0
21	Precise Vehicle Cruise Control System Based on On-Line Fuzzy Control Learning. <i>Communications in Computer and Information Science</i> , 2012 , 101-110	0.3	
20	AUTOPIA Program Advances: How to Automate the Traffic?. <i>Lecture Notes in Computer Science</i> , 2012 , 374-381	0.9	2
19	Low speed control of an autonomous vehicle using a hybrid fractional order controller 2011 ,		6
18	Low Speed Control of an Autonomous Vehicle by Using a Fractional PI Controller. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 15025-15030		7
17	A diagnosis-based approach for tire load forces and maximum friction estimation. <i>Control Engineering Practice</i> , 2011 , 19, 174-184	3.9	85
16	An approach to driverless vehicles in highways 2011 ,		4
15	Automated On-Ramp Merging System for Congested Traffic Situations. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2011 , 12, 500-508	6.1	147
14	Power electric aiding controller for automated bus stopping 2011 ,		3
13	A MODEL-FREE APPROACH FOR ACCURATE JOINT MOTION CONTROL IN HUMANOID LOCOMOTION. <i>International Journal of Humanoid Robotics</i> , 2011 , 08, 27-46	1.2	9
12	Control basado en PID inteligentes: aplicaci3n al control de cruceo de un veh3culo a bajas velocidades. <i>RIAI - Revista Iberoamericana De Automatica E Informatica Industrial</i> , 2010 , 7, 44-52	1.5	5
11	Model-free control techniques for Stop & Go systems 2010 ,		8
10	Robust motion control for humanoid robot flexible joints 2010 ,		2
9	An algebraic approach for maximum friction estimation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 885-890		2
8	Control Basado en PID Inteligentes: Aplicaci3n al Control Robusto de Velocidad en Entornos Urbanos. <i>RIAI - Revista Iberoamericana De Automatica E Informatica Industrial</i> , 2010 , 7, 44-52	1.5	8
7	Mechatronic design and control of a critical biped robot joint 2009 ,		2

6	Robust stop-and-go control strategy: an algebraic approach for non-linear estimation and control. <i>International Journal of Vehicle Autonomous Systems</i> , 2009 , 7, 270	0.4	25
5	An Algebraic Approach for Accurate Motion Control of Humanoid Robot Joints. <i>Lecture Notes in Computer Science</i> , 2009 , 723-732	0.9	2
4	Robust grey-box closed-loop stop-and-go control 2008 ,		3
3	Estimation of Longitudinal and Lateral Vehicle Velocities: An Algebraic Approach 2008 ,		21
2	Flatness-Based Vehicle Steering Control Strategy With SDRE Feedback Gains Tuned Via a Sensitivity Approach. <i>IEEE Transactions on Control Systems Technology</i> , 2007 , 15, 554-565	4.8	68
1	OBSTACLE-AVOIDING PATH PLANNING FOR HIGH VELOCITY WHEELED MOBILE ROBOTS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 49-54		11