Ljubo Vlacic

List of Publications by Year
in descending order

53	1,415	687363 13	642732 23
papers	citations	h-index	g-index

53	53	53	1301
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An LSTM network for highway trajectory prediction. , 2017, , .		338
2	A Novel Cyber Attack Detection Method in Networked Control Systems. IEEE Transactions on Cybernetics, 2018, 48, 3254-3264.	9.5	117
3	Distributed Cyber Attacks Detection and Recovery Mechanism for Vehicle Platooning. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 3821-3834.	8.0	91
4	Integrated control of ground vehicles dynamics via advanced terminal sliding mode control. Vehicle System Dynamics, 2017, 55, 268-294.	3.7	83
5	State-Driven Priority Scheduling Mechanisms for Driverless Vehicles Approaching Intersections. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 2487-2500.	8.0	79
6	Optimal trajectory planning for autonomous driving integrating logical constraints: An MIQP perspective. , 2016, , .		71
7	Active Full-Vehicle Suspension Control via Cloud-Aided Adaptive Backstepping Approach. IEEE Transactions on Cybernetics, 2020, 50, 3113-3124.	9.5	60
8	Decentralized model predictive control for smooth coordination of automated vehicles at intersection. , 2015, , .		56
9	Resilient Tracking Control of Networked Control Systems Under Cyber Attacks. IEEE Transactions on Cybernetics, 2021, 51, 2107-2119.	9.5	47
10	A survey of good practice in control education. European Journal of Engineering Education, 2018, 43, 801-823.	2.3	46
11	Intelligent Vehicle Self-Localization Based on Double-Layer Features and Multilayer LIDAR. IEEE Transactions on Intelligent Vehicles, 2020, 5, 616-625.	12.7	39
12	A hierarchical Model Predictive Control framework for on-road formation control of autonomous vehicles. , 2016, , .		38
13	An Ellipsoidal Set-Membership Approach to Distributed Joint State and Sensor Fault Estimation of Autonomous Ground Vehicles. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 1107-1118.	13.1	36
14	High-speed trajectory planning for autonomous vehicles using a simple dynamic model. , 2017, , .		33
15	Motion planning for urban autonomous driving using BÃ©zier curves and MPC. , 2016, , .		29
16	Priority-based intersection management with kinodynamic constraints. , 2014, , .		27
17	Service-Oriented Cooperation Models and Mechanisms for Heterogeneous Driverless Vehicles at Continuous Static Critical Sections. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 1867-1881.	8.0	26
18	Autonomous Intersection Management systems: criteria, implementation and evaluation. IET Intelligent Transport Systems, 2017, 11, 182-189.	3.0	23

#	Article	IF	Citations
19	Distributed Formation Control of Nonholonomic Wheeled Mobile Robots Subject to Longitudinal Slippage Constraints. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2992-3003.	9.3	23
20	An Algorithm for Supervised Driving of Cooperative Semi-Autonomous Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 3527-3539.	8.0	22
21	Partitioning of the free space-time for on-road navigation of autonomous ground vehicles. , 2017, , .		15
22	A simple dynamic model for aggressive, near-limits trajectory planning. , 2017, , .		13
23	Guaranteeing Consistency in a Motion Planning and Control Architecture Using a Kinematic Bicycle Model. , 2018, , .		12
24	Least restrictive and minimally deviating supervisor for Safe semi-autonomous driving at an intersection: An MIQP approach. , 2016, , .		10
25	Cyber Attack Detection in Platoon-Based Vehicular Networked Control Systems. , 2018, , .		10
26	CoordiNet: uncertainty-aware pose regressor for reliable vehicle localization. , 2022, , .		9
27	An LSTM Network for Real-Time Odometry Estimation. , 2019, , .		8
28	QoS-CITS: A simulator for service-oriented cooperative ITS of intelligent vehicles. , 2017, , .		6
29	Service-Oriented Cooperation Policies for Intelligent Ground Vehicles Approaching Intersections. Applied Sciences (Switzerland), 2018, 8, 1647.	2.5	6
30	Lane-level localization system using surround-view cameras adaptive to different driving conditions. International Journal of Advanced Robotic Systems, 2020, 17, 172988142092163.	2.1	6
31	Tightly-Coupled Magneto-Visual-Inertial Fusion for Long Term Localization in Indoor Environment. IEEE Robotics and Automation Letters, 2022, 7, 952-959.	5.1	6
32	Control strategies for improving ground vehicle stability: State-of-the-art review. , 2015, , .		5
33	Humanoid Robot Navigation: Getting Localization Information from Vision. Journal of Intelligent Systems, 2014, 23, 113-132.	1.6	4
34	A Scenario-Reconfigurable Simulator for Verifying Service-Oriented Cooperation Mechanisms and Policies of Connected Intelligent Vehicles. International Journal of Software Innovation, 2019, 7, 44-62.	0.4	3
35	Detection of Cyber Attacks on Leader-Following Multi-Agent Systems. , 2019, , .		3
36	Field Oriented Control-Based Reduction of the Vibration and Power Consumption of a Blood Pump. Energies, 2020, 13, 3907.	3.1	3

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37	The 2009-2020 Chinese Program on Self Driving and Parallel Testing [Editor's Column]. IEEE Intelligent Transportation Systems Magazine, 2021, 13, 3-247.	3.8	3
38	Secure platooning control of automated vehicles under cyber attacks. ISA Transactions, 2022, 127, 229-238.	5.7	3
39	A tool for evaluation of lifecycle cost of water production for small-scale community projects. Water Policy, 2016, 18, 769-782.	1.5	2
40	An on-line process dead-time estimation algorithm. , 2017, , .		1
41	Cyber-physical attacks detection in networked control systems with limited communication bandwidth. , 2017, , .		1
42	On Global Navigation Satellite System-Assisted Intelligent Transportation Systems [Editor's Column]. IEEE Intelligent Transportation Systems Magazine, 2020, 12, 4-9.	3.8	1
43	FOC-based Methodology for a Low Inductance and Low Power Blood Pump Control. , 2020, , .		1
44	A distributed MPC framework for road-following formation control of car-like vehicles. , 2016, , .		0
45	A methodology to determine the dynamic relationship between process and manipulated variables. , 2017, , .		0
46	Research into ITS-Centric Railway Networks [Editor's Column]. IEEE Intelligent Transportation Systems Magazine, 2018, 10, 2-2.	3.8	0
47	ITS: On a Mission of Advancing Technology for the Benefit of Humanity [Editor's Column]. IEEE Intelligent Transportation Systems Magazine, 2020, 12, 2-3.	3.8	0
48	The 2019 IEEE Intelligent Vehicles Symposium [Conference Reports]. IEEE Intelligent Transportation Systems Magazine, 2020, 12, 95-100.	3.8	0
49	On the Need for Disturbance-Tolerant Transportation Services [Editor's Column]. IEEE Intelligent Transportation Systems Magazine, 2020, 12, 3-9.	3.8	0
50	The 2014â€“2017 George N. Saridis Best Transactions Paper Award. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4920-4921.	8.0	0
51	The 2014-2017 George N. Saridis Best Transactions Paper Award [Society News]. IEEE Intelligent Transportation Systems Magazine, 2021, 13, 252-253.	3.8	0
52	A Pandemic-Resilient Transportation System Paradigm [Editor's Column]. IEEE Intelligent Transportation Systems Magazine, 2021, 13, 3-4.	3.8	0
53	Shall the Rail Lines in Isolated Territories Be Replaced by â€œAutonomous Vehicle Trainsâ€?. IEEE Intelligent Transportation Systems Magazine, 2021, 13, 3-5.	3.8	0