John M Dolan

List of Publications by Year
in descending order

38 papers	1,408 citations	1684188 5 h-index	2053705 5 g-index
38 all docs	38 docs citations	38 times ranked	1099 citing authors

#	Article	IF	Citations
1	Online Verification of Automated Road Vehicles Using Reachability Analysis. IEEE Transactions on Robotics, 2014, 30, 903-918.	10.3	282
2	Motion planning for autonomous driving with a conformal spatiotemporal lattice. , 2011, , .		239
3	Towards a viable autonomous driving research platform. , 2013, , .		166
4	Road-Segmentation-Based Curb Detection Method for Self-Driving via a 3D-LiDAR Sensor. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3981-3991.	8.0	105
5	DLT-Net: Joint Detection of Drivable Areas, Lane Lines, and Traffic Objects. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4670-4679.	8.0	84
6	Efficient L-shape fitting for vehicle detection using laser scanners. , 2017, , .		78
7	Intention estimation for ramp merging control in autonomous driving. , 2017, , .		64
8	A real-time motion planner with trajectory optimization for autonomous vehicles. , 2012, , .		57
9	Automatically Generated Curriculum based Reinforcement Learning for Autonomous Vehicles in Urban Environment. , 2018, , .		37
10	Toward human-like motion planning in urban environments. , 2014, , .		33
11	Reachability computation of low-order models for the safety verification of high-order road vehicle models. , 2012, , .		27
12	L-Shape Fitting-Based Vehicle Pose Estimation and Tracking Using 3D-LiDAR. IEEE Transactions on Intelligent Vehicles, 2021, 6, 787-798.	12.7	27
13	Learning Highway Ramp Merging Via Reinforcement Learning with Temporally-Extended Actions. , 2020, , .		24
14	Learning-Based Algal Bloom Event Recognition for Oceanographic Decision Support System Using Remote Sensing Data. Remote Sensing, 2015, 7, 13564-13585.	4.0	23
15	Attention-Based Hierarchical Deep Reinforcement Learning for Lane Change Behaviors in Autonomous Driving. , 2019, , .		22
16	Attention-based Hierarchical Deep Reinforcement Learning for Lane Change Behaviors in Autonomous Driving. , 2019, , .		16
17	Interactive ramp merging planning in autonomous driving: Multi-merging leading PGM (MML-PGM). , 2017, , .		15
18	Probabilistic Safety-Assured Adaptive Merging Control for Autonomous Vehicles. , 2021, , .		15

#	Article	IF	Citations
19	Operation of Robotic Science Boats Using the Telesupervised Adaptive Ocean Sensor Fleet System. , 2008, , .		13
20	Interactive Trajectory Prediction for Autonomous Driving via Recurrent Meta Induction Neural Network. , 2019, , .		9
21	Speed Planning in Dynamic Environments over a Fixed Path for Autonomous Vehicles. , 2022, , .		8
22	Context-aware tracking of moving objects for distance keeping. , 2015, , .		7
23	FG-GMM-based Interactive Behavior Estimation for Autonomous Driving Vehicles in Ramp Merging Control. , 2020, , .		7
24	Behavior Planning at Urban Intersections through Hierarchical Reinforcement Learning. , 2021, , .		7
25	Camera-Based Semantic Enhanced Vehicle Segmentation for Planar LIDAR. , 2018, , .		6
26	Multiagent Sensor Fusion for Connected & Autonomous Vehicles to Enhance Navigation Safety. , 2019, , .		6
27	Autonomous Vehicle Motion Planning via Recurrent Spline Optimization. , 2021, , .		6
28	Reliability impact on planetary robotic missions. , 2010, , .		3
29	Measuring Similarity of Interactive Driving Behaviors Using Matrix Profile. , 2020, , .		3
30	Linear Inverse Problem for Depth Completion with RGB Image and Sparse LIDAR Fusion. , 2021, , .		3
31	CARLA Simulated Data for Rare Road Object Detection. , 2021, , .		3
32	The Telesupervised Adaptive Ocean Sensor Fleet Architecture. , 2008, , .		2
33	Learning-based event response for marine robotics. , 2013, , .		2
34	Learning to Robustly Negotiate Bi-Directional Lane Usage in High-Conflict Driving Scenarios. , 2021, , .		2
35	Self-Calibration of Multiple LiDARs for Autonomous Vehicles. , 2021, , .		2
36	Jerk-Minimized CILQR for Human-Like Driving on Two-Lane Roadway. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
37	Safe and Resilient Practical Waypoint-Following for Autonomous Vehicles. , 2022, 6, 1574-1579.		2
38	Toward adaptation and reuse of advanced robotic software. , 2011, , .		1