K Madhava Krishna

List of Publications by Year
in descending order

26 papers	304 citations	1937685 4 h-index	2272923 4 g-index
26 all docs	26 docs citations	26 times ranked	246 citing authors

#	Article	IF	Citations
1	Beyond Pixels: Leveraging Geometry and Shape Cues for Online Multi-Object Tracking. , 2018, , .		111
2	PRVO: Probabilistic Reciprocal Velocity Obstacle for multi robot navigation under uncertainty. , 2017, , .		37
3	Constructing Category-Specific Models for Monocular Object-SLAM. , 2018, , .		32
4	Reactive Navigation Under Non-Parametric Uncertainty Through Hilbert Space Embedding of Probabilistic Velocity Obstacles. IEEE Robotics and Automation Letters, 2020, 5, 2690-2697.	5.1	17
5	Semantic Motion Segmentation Using Dense CRF Formulation. , 2014, , .		15
6	Understanding Dynamic Scenes using Graph Convolution Networks. , 2020, , .		14
7	Multi-Modal Model Predictive Control Through Batch Non-Holonomic Trajectory Optimization: Application to Highway Driving. IEEE Robotics and Automation Letters, 2022, 7, 4220-4227.	5.1	13
8	Towards Accurate Vehicle Behaviour Classification With Multi-Relational Graph Convolutional Networks. , 2020, , .		12
9	Bi-Convex Approximation of Non-Holonomic Trajectory Optimization. , 2020, , .		6
10	Solving Chance-Constrained Optimization Under Nonparametric Uncertainty Through Hilbert Space Embedding. IEEE Transactions on Control Systems Technology, 2022, 30, 901-916.	5.2	6
11	PERSON FOLLOWING WITH A MOBILE ROBOT USING A MODIFIED OPTICAL FLOW. , 2008, , .		6
12	RoRD: Rotation-Robust Descriptors and Orthographic Views for Local Feature Matching. , 2021, , .		6
13	Using In-frame Shear Constraints for Monocular Motion Segmentation of Rigid Bodies. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 82, 237-255.	3.4	5
14	Modular Pipe Climber. , 2019, , .		4
15	Learning to Prevent Monocular SLAM Failure using Reinforcement Learning. , 2018, , .		3
16	IVO. , 2019, , .		3
17	RTVS: A Lightweight Differentiable MPC Framework for Real-Time Visual Servoing. , 2021, , .		3
18	CCO-VOXEL: Chance Constrained Optimization over Uncertain Voxel-Grid Representation for Safe Trajectory Planning. , 2022, , .		3

#	Article	IF	Citations
19	Fast Joint Multi-Robot Trajectory Optimization by GPU Accelerated Batch Solution of Distributed Sub-Problems. Frontiers in Robotics and AI, 0, 9, .	3.2	3
20	Linear-chain CRF based intersection recognition. , 2014, , .		2
21	CRF Based Frontier Detection using Monocular Camera. , 2014, , .		1
22	Top Down Approach to Detect Multiple Planes from Pair of Images. , 2014, , .		1
23	Design and Simulation of a Flexible Three-Module Pipe Climber. , 2021, , .		1
24	Robot application development framework based on database. , 2009, , .		0
25	Localizing from Multi-Hypotheses States Minimizing Expected Path Lengths for Mobile Robots. , 2008, , .		0
26	Non Holonomic Collision Avoidance under Non-Parametric Uncertainty: A Hilbert Space Approach. , 2021, , .		0