

Yuxiang Sun

List of Publications by Year in descending order

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55
papers

1,701
citations

361413

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all docs

56
docs citations

56
times ranked

1083
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Fusion Module Evolves Drivable Area and Road Anomaly Detection: A Benchmark and Algorithms. IEEE Transactions on Cybernetics, 2022, 52, 10750-10760.	9.5	53
2	A Novel Coding Scheme for Large-Scale Point Cloud Sequences Based on Clustering and Registration. IEEE Transactions on Automation Science and Engineering, 2022, 19, 2384-2396.	5.2	4
3	A Novel Inertial-Aided Visible Light Positioning System Using Modulated LEDs and Unmodulated Lights as Landmarks. IEEE Transactions on Automation Science and Engineering, 2022, 19, 3049-3067.	5.2	8
4	LedMapper: Toward Efficient and Accurate LED Mapping for Visible Light Positioning at Scale. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	4.7	9
5	Why-So-Deep: Towards Boosting Previously Trained Models for Visual Place Recognition. IEEE Robotics and Automation Letters, 2022, 7, 1824-1831.	5.1	4
6	csBoundary: City-Scale Road-Boundary Detection in Aerial Images for High-Definition Maps. IEEE Robotics and Automation Letters, 2022, 7, 5063-5070.	5.1	10
7	DQ-GAT: Towards Safe and Efficient Autonomous Driving With Deep Q-Learning and Graph Attention Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 21102-21112.	8.0	10
8	RNGDet: Road Network Graph Detection by Transformer in Aerial Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	10
9	Ultrasound-Guided Assistive Robots for Scoliosis Assessment With Optimization-Based Control and Variable Impedance. IEEE Robotics and Automation Letters, 2022, 7, 8106-8113.	5.1	11
10	Consensus-Based Cooperative Formation Guidance Strategy for Multiparafoil Airdrop Systems. IEEE Transactions on Automation Science and Engineering, 2021, 18, 2175-2184.	5.2	15
11	FuseSeg: Semantic Segmentation of Urban Scenes Based on RGB and Thermal Data Fusion. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1000-1011.	5.2	85
12	The Role of the Hercules Autonomous Vehicle During the COVID-19 Pandemic: An Autonomous Logistic Vehicle for Contactless Goods Transportation. IEEE Robotics and Automation Magazine, 2021, 28, 48-58.	2.0	32
13	iCurb: Imitation Learning-Based Detection of Road Curbs Using Aerial Images for Autonomous Driving. IEEE Robotics and Automation Letters, 2021, 6, 1097-1104.	5.1	23
14	PointMoSeg: Sparse Tensor-Based End-to-End Moving-Obstacle Segmentation in 3-D Lidar Point Clouds for Autonomous Driving. IEEE Robotics and Automation Letters, 2021, 6, 510-517.	5.1	12
15	End-to-End Interactive Prediction and Planning with Optical Flow Distillation for Autonomous Driving. , 2021, , .		9
16	Incorporating learnt local and global embeddings into monocular visual SLAM. Autonomous Robots, 2021, 45, 789-803.	4.8	0
17	VTGNet: A Vision-Based Trajectory Generation Network for Autonomous Vehicles in Urban Environments. IEEE Transactions on Intelligent Vehicles, 2021, 6, 419-429.	12.7	29
18	Topo-Boundary: A Benchmark Dataset on Topological Road-Boundary Detection Using Aerial Images for Autonomous Driving. IEEE Robotics and Automation Letters, 2021, 6, 7248-7255.	5.1	23

#	ARTICLE	IF	CITATIONS
19	On Bundle Adjustment for Multiview Point Cloud Registration. IEEE Robotics and Automation Letters, 2021, 6, 8269-8276.	5.1	5
20	Learning Interpretable End-to-End Vision-Based Motion Planning for Autonomous Driving with Optical Flow Distillation. , 2021, , .		16
21	S2P2: Self-Supervised Goal-Directed Path Planning Using RGB-D Data for Robotic Wheelchairs. , 2021, , .		1
22	CP-loss: Connectivity-preserving Loss for Road Curb Detection in Autonomous Driving with Aerial Images. , 2021, , .		5
23	DiGNet: Learning Scalable Self-Driving Policies for Generic Traffic Scenarios with Graph Neural Networks. , 2021, , .		8
24	Guest Editorial: Autonomous systems: Navigation, learning, and control. IET Cyber-Systems and Robotics, 2021, 3, 279-280.	1.8	0
25	Robust Semantic Mapping in Challenging Environments. Robotica, 2020, 38, 256-270.	1.9	20
26	Hand-Eye Calibration: 4-D Procrustes Analysis Approach. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2966-2981.	4.7	55
27	Monocular Visual Odometry using Learned Repeatability and Description. , 2020, , .		9
28	Probabilistic End-to-End Vehicle Navigation in Complex Dynamic Environments with Multimodal Sensor Fusion. IEEE Robotics and Automation Letters, 2020, , 1-1.	5.1	30
29	GMMLoc: Structure Consistent Visual Localization With Gaussian Mixture Models. IEEE Robotics and Automation Letters, 2020, 5, 5043-5050.	5.1	20
30	PointTrackNet: An End-to-End Network For 3-D Object Detection and Tracking From Point Clouds. IEEE Robotics and Automation Letters, 2020, 5, 3206-3212.	5.1	42
31	See the Future: A Semantic Segmentation Network Predicting Ego-Vehicle Trajectory With a Single Monocular Camera. IEEE Robotics and Automation Letters, 2020, 5, 3066-3073.	5.1	26
32	High-Speed Autonomous Drifting With Deep Reinforcement Learning. IEEE Robotics and Automation Letters, 2020, 5, 1247-1254.	5.1	69
33	Applying Surface Normal Information in Drivable Area and Road Anomaly Detection for Ground Mobile Robots. , 2020, , .		40
34	Self-Supervised Drivable Area and Road Anomaly Segmentation Using RGB-D Data For Robotic Wheelchairs. IEEE Robotics and Automation Letters, 2019, 4, 4386-4393.	5.1	46
35	A Virtual Structure Formation Guidance Strategy for Multi-Parafoil Systems. IEEE Access, 2019, 7, 123592-123603.	4.2	17
36	Improving monocular visual SLAM in dynamic environments: an optical-flow-based approach. Advanced Robotics, 2019, 33, 576-589.	1.8	49

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37	RTFNet: RGB-Thermal Fusion Network for Semantic Segmentation of Urban Scenes. IEEE Robotics and Automation Letters, 2019, 4, 2576-2583.	5.1	211
38	Autonomous Robotic Exploration by Incremental Road Map Construction. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1720-1731.	5.2	40
39	A Novel Point Cloud Compression Algorithm Based on Clustering. IEEE Robotics and Automation Letters, 2019, 4, 2132-2139.	5.1	56
40	Active Perception for Foreground Segmentation: An RGB-D Data-Based Background Modeling Method. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1596-1609.	5.2	37
41	Robust Lane Marking Detection Algorithm Using Drivable Area Segmentation and Extended SLT. , 2019, , .		1
42	Multiple-object Tracking based on Monocular Camera and 3-D Lidar Fusion for Autonomous Vehicles. , 2019, , .		4
43	Metric Monocular Localization Using Signed Distance Fields. , 2019, , .		8
44	Accurate Lane Detection with Atrous Convolution and Spatial Pyramid Pooling for Autonomous Driving. , 2019, , .		8
45	Vision-Based Trajectory Planning via Imitation Learning for Autonomous Vehicles. , 2019, , .		28
46	Reliable Monocular Ego-Motion Estimation System in Rainy Urban Environments. , 2019, , .		4
47	An Accurate Localization Scheme for Mobile Robots Using Optical Flow in Dynamic Environments. , 2018, , .		10
48	A Locomotion Recognition System Using Depth Images. , 2018, , .		18
49	Motion removal for reliable RGB-D SLAM in dynamic environments. Robotics and Autonomous Systems, 2018, 108, 115-128.	5.1	139
50	Improving RGB-D SLAM in dynamic environments: A motion removal approach. Robotics and Autonomous Systems, 2017, 89, 110-122.	5.1	265
51	A dense semantic mapping system based on CRF-RNN network. , 2017, , .		10
52	Invisibility: A moving-object removal approach for dynamic scene modelling using RGB-D camera. , 2017, , .		5
53	Motion removal from moving platforms: An RGB-D data-based motion detection, tracking and segmentation approach. , 2015, , .		2
54	Multiple moving objects tracking for automated visual surveillance. , 2015, , .		4

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55	WiFi signal strength-based robot indoor localization. , 2014, , .		46