

Long Chen

List of Publications by Year in descending order

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79
papers

4,170
citations

186209

28
h-index

175177

52
g-index

79
all docs

79
docs citations

79
times ranked

3933
citing authors

#	ARTICLE	IF	CITATIONS
1	Gaze Control for Active Visual SLAM via Panoramic Cost Map. IEEE Transactions on Intelligent Vehicles, 2023, 8, 1813-1825.	9.4	4
2	Conditional DQN-Based Motion Planning With Fuzzy Logic for Autonomous Driving. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 2966-2977.	4.7	41
3	Pedestrian Motion Trajectory Prediction in Intelligent Driving from Far Shot First-Person Perspective Video. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 5298-5313.	4.7	53
4	Transductive Zero-Shot Hashing for Multilabel Image Retrieval. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1673-1687.	7.2	7
5	Parallel Vision for Long-Tail Regularization: Initial Results From IVFC Autonomous Driving Testing. IEEE Transactions on Intelligent Vehicles, 2022, 7, 286-299.	9.4	50
6	Real-Time Scheduling of Autonomous Mining Trucks via Flow Allocation-Accelerated Tabu Search. IEEE Transactions on Intelligent Vehicles, 2022, 7, 466-479.	9.4	20
7	Verification and Validation of Intelligent Vehicles: Objectives and Efforts From China. IEEE Transactions on Intelligent Vehicles, 2022, 7, 164-169.	9.4	31
8	Fuzzy clustering for multiview data by combining latent information. Applied Soft Computing Journal, 2022, 126, 109140.	4.1	6
9	Learning a Deep Cascaded Neural Network for Multiple Motion Commands Prediction in Autonomous Driving. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 7585-7596.	4.7	21
10	Visualization Analysis of Intelligent Vehicles Research Field Based on Mapping Knowledge Domain. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 5721-5736.	4.7	34
11	Dual context prior and refined prediction for semantic segmentation. Geo-Spatial Information Science, 2021, 24, 228-240.	2.4	2
12	Toward Location-Enabled IoT (LE-IoT): IoT Positioning Techniques, Error Sources, and Error Mitigation. IEEE Internet of Things Journal, 2021, 8, 4035-4062.	5.5	91
13	Lightweight Single-Image Super-Resolution Network with Attentive Auxiliary Feature Learning. Lecture Notes in Computer Science, 2021, , 268-285.	1.0	11
14	China's 12-Year Quest of Autonomous Vehicular Intelligence: The Intelligent Vehicles Future Challenge Program. IEEE Intelligent Transportation Systems Magazine, 2021, 13, 6-19.	2.6	18
15	Trajectory Planning for Autonomous Mining Trucks Considering Terrain Constraints. IEEE Transactions on Intelligent Vehicles, 2021, 6, 772-786.	9.4	33
16	Deep Neural Network Based Vehicle and Pedestrian Detection for Autonomous Driving: A Survey. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 3234-3246.	4.7	90
17	FISS GAN: A Generative Adversarial Network for Foggy Image Semantic Segmentation. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 1428-1439.	8.5	61
18	Semasuperpixel: A Multi-Channel Probability-Driven Superpixel Segmentation Method. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
19	NFIS: A NMS-free FCOS Method for Instance Segmentation. , 2021, , .		0
20	Berm Detection for Autonomous truck in Surface Mine Dump Area. , 2021, , .		2
21	A Full Density Stereo Matching System Based on the Combination of CNNs and Slanted-Planes. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 397-408.	5.9	19
22	Membership Affinity Lasso for Fuzzy Clustering. IEEE Transactions on Fuzzy Systems, 2020, 28, 294-307.	6.5	30
23	A Collaborative Visual Tracking Architecture for Correlation Filter and Convolutional Neural Network Learning. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 3423-3435.	4.7	9
24	Improved Deep Hashing With Soft Pairwise Similarity for Multi-Label Image Retrieval. IEEE Transactions on Multimedia, 2020, 22, 540-553.	5.2	103
25	Surrounding Vehicle Detection Using an FPGA Panoramic Camera and Deep CNNs. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 5110-5122.	4.7	34
26	Parallel End-to-End Autonomous Mining: An IoT-Oriented Approach. IEEE Internet of Things Journal, 2020, 7, 1011-1023.	5.5	34
27	Robust Lane Detection From Continuous Driving Scenes Using Deep Neural Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 41-54.	3.9	216
28	DenseLightNet: A Light-Weight Vehicle Detection Network for Autonomous Driving. IEEE Transactions on Industrial Electronics, 2020, 67, 10600-10609.	5.2	40
29	Three-Dimensional Cooperative Mapping for Connected and Automated Vehicles. IEEE Transactions on Industrial Electronics, 2020, 67, 6649-6658.	5.2	23
30	Learning Driving Models From Parallel End-to-End Driving Data Set. Proceedings of the IEEE, 2020, 108, 262-273.	16.4	33
31	Fuzzy Kinodynamic RRT: a Dynamic Path Planning and Obstacle Avoidance Method. , 2020, , .		7
32	A Reinforcement Learning-Based Adaptive Path Tracking Approach for Autonomous Driving. IEEE Transactions on Vehicular Technology, 2020, 69, 10581-10595.	3.9	50
33	Estimating Abundance of Siberian Roe Deer Using Fecal-DNA Capture-Mark-Recapture in Northeast China. Animals, 2020, 10, 1135.	1.0	3
34	Classification of Point Clouds for Indoor Components Using Few Labeled Samples. Remote Sensing, 2020, 12, 2181.	1.8	3
35	Low-Rank Tensor Regularized Fuzzy Clustering for Multiview Data. IEEE Transactions on Fuzzy Systems, 2020, 28, 3087-3099.	6.5	13
36	A Fast Spatial Clustering Method for Sparse LiDAR Point Clouds Using GPU Programming. Sensors, 2020, 20, 2309.	2.1	5

#	ARTICLE	IF	CITATIONS
37	A survey on deep learning methods for scene flow estimation. Pattern Recognition, 2020, 106, 107378.	5.1	12
38	Autonomous Driving at Intersections: A Critical-Turning-Point Approach for Left Turns. , 2020, , .		20
39	GOSMatch: Graph-of-Semantics Matching for Detecting Loop Closures in 3D LiDAR data. , 2020, , .		36
40	Parallel planning: a new motion planning framework for autonomous driving. IEEE/CAA Journal of Automatica Sinica, 2019, 6, 236-246.	8.5	92
41	High-Speed Scene Flow on Embedded Commercial Off-the-Shelf Systems. IEEE Transactions on Industrial Informatics, 2019, 15, 1843-1852.	7.2	10
42	Semantic Segmentation via Structured Refined Prediction and Dual Global Priors. , 2019, , .		1
43	End-to-End Autonomous Driving: An Angle Branched Network Approach. IEEE Transactions on Vehicular Technology, 2019, 68, 11599-11610.	3.9	26
44	DeepSqueezeNet-CRF: A Lightweight Deep Model for Semantic Image Segmentation. , 2019, , .		5
45	An Adaptive Path Tracking Controller Based on Reinforcement Learning with Urban Driving Application. , 2019, , .		11
46	High-Resolution Driving Scene Synthesis Using Stacked Conditional Gans and Spectral Normalization. , 2019, , .		2
47	DSNet: Joint Learning for Scene Segmentation and Disparity Estimation. , 2019, , .		6
48	Deep Integration: A Multi-Label Architecture for Road Scene Recognition. IEEE Transactions on Image Processing, 2019, 28, 4883-4898.	6.0	69
49	Parallel testing of vehicle intelligence via virtual-real interaction. Science Robotics, 2019, 4, .	9.9	150
50	Monocular Outdoor Semantic Mapping with a Multi-task Network. , 2019, , .		6
51	Dynamic States Prediction in Autonomous Vehicles: Comparison of Three Different Methods. , 2019, , .		3
52	Parallel Motion Planning: Learning a Deep Planning Model against Emergencies. IEEE Intelligent Transportation Systems Magazine, 2019, 11, 36-41.	2.6	10
53	Feature Selection Based on Tensor Decomposition and Object Proposal for Night-Time Multiclass Vehicle Detection. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 71-80.	5.9	28
54	Collaborative Three-Dimensional Completion of Color and Depth in a Specified Area With Superpixels. IEEE Transactions on Industrial Electronics, 2019, 66, 6260-6269.	5.2	3

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55	Improving classification with semi-supervised and fine-grained learning. Pattern Recognition, 2019, 88, 547-556.	5.1	19
56	A Fast and Efficient Double-Tree RRT*-Like Sampling-Based Planner Applying on Mobile Robotic Systems. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2568-2578.	3.7	104
57	Vehicle Tracking at Nighttime by Kernelized Experts With Channel-Wise and Temporal Reliability Estimation. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3159-3169.	4.7	8
58	Bayes Saliency-Based Object Proposal Generator for Nighttime Traffic Images. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 814-825.	4.7	23
59	Dynamic path planning for autonomous driving on various roads with avoidance of static and moving obstacles. Mechanical Systems and Signal Processing, 2018, 100, 482-500.	4.4	228
60	Online Cooperative 3D Mapping for Autonomous Driving. , 2018, , .		5
61	Learning a Deep Motion Planning Model for Autonomous Driving. , 2018, , .		12
62	Optimization of Pure Pursuit Controller based on PID Controller and Low-pass Filter. , 2018, , .		19
63	A New Feature Pyramid Network For Road Scene Segmentation. , 2018, , .		0
64	Transforming a 3-D LiDAR Point Cloud Into a 2-D Dense Depth Map Through a Parameter Self-Adaptive Framework. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 165-176.	4.7	28
65	Turn Signal Detection During Nighttime by CNN Detector and Perceptual Hashing Tracking. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 3303-3314.	4.7	59
66	Moving-Object Detection From Consecutive Stereo Pairs Using Slanted Plane Smoothing. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 3093-3102.	4.7	43
67	SCA-CNN: Spatial and Channel-Wise Attention in Convolutional Networks for Image Captioning. , 2017, , .		1,139
68	Night-Time Vehicle Detection Algorithm Based on Visual Saliency and Deep Learning. Journal of Sensors, 2016, 2016, 1-7.	0.6	25
69	Geodesic-based pavement shadow removal revisited. , 2016, , .		7
70	Vehicle detection based on visual saliency and deep sparse convolution hierarchical model. Chinese Journal of Mechanical Engineering (English Edition), 2016, 29, 765-772.	1.9	6
71	Combining Region-of-Interest Extraction and Image Enhancement for Nighttime Vehicle Detection. IEEE Intelligent Systems, 2016, 31, 57-65.	4.0	65
72	ALIMC: Activity Landmark-Based Indoor Mapping via Crowdsourcing. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 2774-2785.	4.7	99

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73	Sparse depth map upsampling with RGB image and anisotropic diffusion tensor. , 2015, , .		7
74	A Novel Disparity Refinement Method Based on Semi-Global Matching Algorithm. , 2014, , .		3
75	A Sensor-Fusion Drivable-Region and Lane-Detection System for Autonomous Vehicle Navigation in Challenging Road Scenarios. IEEE Transactions on Vehicular Technology, 2014, 63, 540-555.	3.9	296
76	Intersection detection and recognition for autonomous urban driving using a virtual cylindrical scanner. IET Intelligent Transport Systems, 2014, 8, 244-254.	1.7	7
77	Design of a Multi-Sensor Cooperation Travel Environment Perception System for Autonomous Vehicle. Sensors, 2012, 12, 12386-12404.	2.1	28
78	3D LIDAR point cloud based intersection recognition for autonomous driving. , 2012, , .		42
79	A Multiple-Kernel Fuzzy C-Means Algorithm for Image Segmentation. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 1263-1274.	5.5	211