

# Chunxiang Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

846  
citations

567281

15  
h-index

642732

23  
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61  
all docs

61  
docs citations

61  
times ranked

671  
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic Parking Based on a Bird's Eye View Vision System. Advances in Mechanical Engineering, 2014, 6, 847406.	1.6	85
2	Restricted Deformable Convolution-Based Road Scene Semantic Segmentation Using Surround View Cameras. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4350-4362.	8.0	71
3	CNN based semantic segmentation for urban traffic scenes using fisheye camera. , 2017, , .		70
4	Hierarchical Depthwise Graph Convolutional Neural Network for 3D Semantic Segmentation of Point Clouds. , 2019, , .		45
5	Robust and Real-Time Traffic Lights Recognition in Complex Urban Environments. International Journal of Computational Intelligence Systems, 2011, 4, 1383-1390.	2.7	34
6	Pole-Based Real-Time Localization for Autonomous Driving in Congested Urban Scenarios. , 2018, , .		34
7	Vehicle Localization at an Intersection Using a Traffic Light Map. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1432-1441.	8.0	31
8	Robust Point Set Registration Using Signature Quadratic Form Distance. IEEE Transactions on Cybernetics, 2020, 50, 2097-2109.	9.5	27
9	3D Instance Embedding Learning With a Structure-Aware Loss Function for Point Cloud Segmentation. IEEE Robotics and Automation Letters, 2020, 5, 4915-4922.	5.1	26
10	Integrating visual selective attention model with HOG features for traffic light detection and recognition. , 2015, , .		25
11	Ground-Texture-Based Localization for Intelligent Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2009, 10, 463-468.	8.0	24
12	Neutral Cross-Entropy Loss Based Unsupervised Domain Adaptation for Semantic Segmentation. IEEE Transactions on Image Processing, 2021, 30, 4516-4525.	9.8	24
13	Rigid Point Set Registration Based on Cubature Kalman Filter and Its Application in Intelligent Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 1754-1765.	8.0	21
14	SPADE-E2VID: Spatially-Adaptive Denormalization for Event-Based Video Reconstruction. IEEE Transactions on Image Processing, 2021, 30, 2488-2500.	9.8	21
15	CyberC3: A Prototype Cybernetic Transportation System for Urban Applications. IEEE Transactions on Intelligent Transportation Systems, 2010, 11, 142-152.	8.0	20
16	End-to-end learning for high-precision lane keeping via multi-state model. CAAI Transactions on Intelligence Technology, 2018, 3, 185-190.	8.1	20
17	Shadow Detection and Removal for Illumination Consistency on the Road. IEEE Transactions on Intelligent Vehicles, 2020, 5, 534-544.	12.7	20
18	Hybrid Filtering Framework Based Robust Localization for Industrial Vehicles. IEEE Transactions on Industrial Informatics, 2018, 14, 941-950.	11.3	18

#	ARTICLE	IF	CITATIONS
19	Hierarchical Neighborhood Based Precise Localization for Intelligent Vehicles in Urban Environments. IEEE Transactions on Intelligent Vehicles, 2016, 1, 220-229.	12.7	17
20	Self-adapting part-based pedestrian detection using a fish-eye camera. , 2017, , .		16
21	Map-Enhanced Ego-Lane Detection in the Missing Feature Scenarios. IEEE Access, 2020, 8, 107958-107968.	4.2	15
22	Curvature Map-Based Magnetic Guidance for Automated Vehicles in an Urban Environment. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 3541-3552.	8.0	13
23	Multi-Reward Architecture based Reinforcement Learning for Highway Driving Policies. , 2019, , .		13
24	Gated-Residual Block for Semantic Segmentation Using RGB-D Data. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 11836-11844.	8.0	12
25	Pedestrian Graph +: A Fast Pedestrian Crossing Prediction Model Based on Graph Convolutional Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 21050-21061.	8.0	12
26	An overview on sensor map based localization for automated driving. , 2017, , .		9
27	SVM based people counting method in the corridor scene using a single-layer laser scanner. , 2016, , .		8
28	CentroidReg: A Global-to-Local Framework for Partial Point Cloud Registration. IEEE Robotics and Automation Letters, 2021, 6, 2533-2540.	5.1	8
29	Shadow detection and removal for illumination consistency on the road. , 2017, , .		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	Robust Localization for Intelligent Vehicles Based on Pole-Like Features Using the Point Cloud. IEEE Transactions on Automation Science and Engineering, 2022, 19, 1095-1108.	5.2	6
32	Prioritized Experience Replay-Based Deep Q Learning: Multiple-Reward Architecture for Highway Driving Decision Making. IEEE Robotics and Automation Magazine, 2021, 28, 21-31.	2.0	6
33	G3DOA: Generalizable 3D Descriptor With Overlap Attention for Point Cloud Registration. IEEE Robotics and Automation Letters, 2022, 7, 2541-2548.	5.1	6
34	Laser Radar based Vehicle Localization in GPS Signal Blocked Areas. International Journal of Computational Intelligence Systems, 2011, 4, 1100-1109.	2.7	5
35	A robust terrain-based road vehicle localization algorithm. , 2016, , .		5
36	Adversarial Training-Based Hard Example Mining for Pedestrian Detection in Fish-Eye Images. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 7688-7698.	8.0	5

#	ARTICLE	IF	CITATIONS
37	Hybrid Genetic Algorithm Based Dispatch and Conflict-free Routing Method of ACV Systems in Unmanned Underground Parking Lots. , 2020, , .		5
38	Split Covariance Intersection Filter based Front-Vehicle Track Estimation for Vehicle Platooning without Communication. , 2020, , .		5
39	Hy-Seg: A Hybrid Method for Ground Segmentation Using Point Clouds. IEEE Transactions on Intelligent Vehicles, 2023, 8, 1597-1606.	12.7	5
40	A New Approach to High-accuracy Road Orthophoto Mapping Based on Wavelet Transform. International Journal of Computational Intelligence Systems, 2011, 4, 1367-1374.	2.7	4
41	Improved Intelligent Vehicle Localization Using Magnetic Ruler. International Journal of Computational Intelligence Systems, 2011, 4, 394-401.	2.7	4
42	An extended probabilistic self-localization algorithm using hybrid maps. , 2014, , .		4
43	Occupancy grid based urban localization using weighted point cloud. , 2016, , .		4
44	Gaussian mixture model-signature quadratic form distance based point set registration. , 2017, , .		4
45	VRDriving: A Virtual-to-Real Autonomous Driving Framework Based on Adversarial Learning. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 912-921.	3.8	4
46	Real-Time Trajectory Planning for On-road Autonomous Tractor-Trailer Vehicles. Journal of Shanghai Jiaotong University (Science), 2021, 26, 722-730.	0.9	4
47	A Novel System for Guiding Unmanned Vehicles Based on Human Gesture Recognition. , 2020, , .		3
48	CyberTORCS: An Intelligent Vehicles Simulation Platform for Cooperative Driving. International Journal of Computational Intelligence Systems, 2011, 4, 378-385.	2.7	2
49	Cubature Kalman Filter based point set registration for SLAM. , 2016, , .		2
50	Monocular Visual-Inertial Odometry Based on Sparse Feature Selection with Adaptive Grid. , 2018, , .		2
51	Autonomous Exploration for Automated Valet Parking Based on Road Structure. , 2019, , .		2
52	Graph Matching Pose SLAM based on Road Network Information. , 2019, , .		2
53	SteeringLoss: A Cost-Sensitive Loss Function for the End-to-End Steering Estimation. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 1104-1113.	8.0	2
54	Time-of-Flight Camera Based Indoor Parking Localization Leveraging Manhattan World Regulation. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
55	Collision-Free Path Planning with Kinematic Constraints in Urban Scenarios. Journal of Shanghai Jiaotong University (Science), 2021, 26, 731-738.	0.9	1
56	AGBM: An Adaptive Gradient Balanced Mechanism for the End-to-End Steering Estimation. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 16016-16025.	8.0	1
57	Lane-level orthophoto map generation using multiple onboard cameras. , 2014, , .		0
58	Panorama-Based Multilane Recognition for Advanced Navigation Map Generation. Mathematical Problems in Engineering, 2015, 2015, 1-14.	1.1	0
59	Innovative design of palletizing system for China's local industries. , 2016, , .		0
60	An Efficient Hierarchical Convolutional Neural Network for Traffic Object Detection. , 2018, , .		0
61	Pedestrian Tracking Based on Laser and Image Data Fusion. , 2019, , .		0