

Ming Yang

List of Publications by Year in descending order

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171
papers

12,438
citations

236612

25
h-index

58464

82
g-index

172
all docs

172
docs citations

172
times ranked

10917
citing authors

#	ARTICLE	IF	CITATIONS
1	3D Convolutional Neural Networks for Human Action Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 221-231.	9.7	4,472
2	DeepFace: Closing the Gap to Human-Level Performance in Face Verification. , 2014, , .		3,695
3	BSN: Boundary Sensitive Network for Temporal Action Proposal Generation. Lecture Notes in Computer Science, 2018, , 3-21.	1.0	335
4	Large-scale image classification: Fast feature extraction and SVM training. , 2011, , .		273
5	Context-Aware Visual Tracking. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 1195-1209.	9.7	196
6	Conditional Generative Adversarial Network for Structured Domain Adaptation. , 2018, , .		192
7	Bi-Directional Cascade Network for Perceptual Edge Detection. , 2019, , .		178
8	Web-scale training for face identification. , 2015, , .		150
9	SSAP: Single-Shot Instance Segmentation With Affinity Pyramid. , 2019, , .		148
10	Regionlets for Generic Object Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 2071-2084.	9.7	146
11	Query Specific Rank Fusion for Image Retrieval. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 803-815.	9.7	143
12	Traffic Experiment Reveals the Nature of Car-Following. PLoS ONE, 2014, 9, e94351.	1.1	132
13	Automatic Parking Based on a Bird's Eye View Vision System. Advances in Mechanical Engineering, 2014, 6, 847406.	0.8	85
14	DLT-Net: Joint Detection of Drivable Areas, Lane Lines, and Traffic Objects. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4670-4679.	4.7	84
15	Spatial-Temporal Attention-Aware Learning for Video-Based Person Re-Identification. IEEE Transactions on Image Processing, 2019, 28, 4192-4205.	6.0	77
16	Restricted Deformable Convolution-Based Road Scene Semantic Segmentation Using Surround View Cameras. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4350-4362.	4.7	71
17	CNN based semantic segmentation for urban traffic scenes using fisheye camera. , 2017, , .		70
18	Towards Codebook-Free: Scalable Cascaded Hashing for Mobile Image Search. IEEE Transactions on Multimedia, 2014, 16, 601-611.	5.2	60

#	ARTICLE	IF	CITATIONS
19	Split Covariance Intersection Filter: Theory and Its Application to Vehicle Localization. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 1860-1871.	4.7	59
20	Multiple Collaborative Kernel Tracking. , 0, , .		58
21	Detection driven adaptive multi-cue integration for multiple human tracking. , 2009, , .		54
22	AdaBoost-based face detection for embedded systems. Computer Vision and Image Understanding, 2010, 114, 1116-1125.	3.0	54
23	Mining discriminative co-occurrence patterns for visual recognition. , 2011, , .		54
24	BDCN: Bi-Directional Cascade Network for Perceptual Edge Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 100-113.	9.7	49
25	Conflict-Probability-Estimation-Based Overtaking for Intelligent Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2009, 10, 366-370.	4.7	47
26	Hierarchical Depthwise Graph Convolutional Neural Network for 3D Semantic Segmentation of Point Clouds. , 2019, , .		45
27	Deep Reinforcement Learning with Iterative Shift for Visual Tracking. Lecture Notes in Computer Science, 2018, , 697-713.	1.0	44
28	Scalable Feature Matching by Dual Cascaded Scalar Quantization for Image Retrieval. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 159-171.	9.7	43
29	Temporal-Context Enhanced Detection of Heavily Occluded Pedestrians. , 2020, , .		42
30	Discriminative Feature Transformation for Occluded Pedestrian Detection. , 2019, , .		39
31	Game-Theoretic Multiple Target Tracking. , 2007, , .		37
32	Mining Semantics-Preserving Attention for Group Activity Recognition. , 2018, , .		35
33	Robust and Real-Time Traffic Lights Recognition in Complex Urban Environments. International Journal of Computational Intelligence Systems, 2011, 4, 1383-1390.	1.6	34
34	Pole-Based Real-Time Localization for Autonomous Driving in Congested Urban Scenarios. , 2018, , .		34
35	Collaborative Active Visual Recognition from Crowds: A Distributed Ensemble Approach. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 582-594.	9.7	33
36	Multiple Collaborative Kernel Tracking. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1268-1273.	9.7	31

#	ARTICLE	IF	CITATIONS
37	Vehicle Localization at an Intersection Using a Traffic Light Map. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1432-1441.	4.7	31
38	Learning Recurrent 3D Attention for Video-Based Person Re-Identification. IEEE Transactions on Image Processing, 2020, 29, 6963-6976.	6.0	30
39	Semantic-Aware Co-Indexing for Image Retrieval. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 2573-2587.	9.7	29
40	Learning Semantics-Preserving Attention and Contextual Interaction for Group Activity Recognition. IEEE Transactions on Image Processing, 2019, 28, 4997-5012.	6.0	29
41	Correspondence driven adaptation for human profile recognition. , 2011, , .		28
42	Pedestrian Graph: Pedestrian Crossing Prediction Based on 2D Pose Estimation and Graph Convolutional Networks. , 2019, , .		27
43	Robust Point Set Registration Using Signature Quadratic Form Distance. IEEE Transactions on Cybernetics, 2020, 50, 2097-2109.	6.2	27
44	Resolution-invariant Person Re-Identification. , 2019, , .		27
45	Tracking Nonstationary Visual Appearances by Data-Driven Adaptation. IEEE Transactions on Image Processing, 2009, 18, 1633-1644.	6.0	26
46	3D Instance Embedding Learning With a Structure-Aware Loss Function for Point Cloud Segmentation. IEEE Robotics and Automation Letters, 2020, 5, 4915-4922.	3.3	26
47	Integrating visual selective attention model with HOG features for traffic light detection and recognition. , 2015, , .		25
48	Self-Mimic Learning for Small-scale Pedestrian Detection. , 2020, , .		25
49	Ground-Texture-Based Localization for Intelligent Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2009, 10, 463-468.	4.7	24
50	Neutral Cross-Entropy Loss Based Unsupervised Domain Adaptation for Semantic Segmentation. IEEE Transactions on Image Processing, 2021, 30, 4516-4525.	6.0	24
51	Oriented Spatial Transformer Network for Pedestrian Detection Using Fish-Eye Camera. IEEE Transactions on Multimedia, 2020, 22, 421-431.	5.2	23
52	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.	4.7	21
53	Semantic Segmentation-Based Lane-Level Localization Using Around View Monitoring System. IEEE Sensors Journal, 2019, 19, 10077-10086.	2.4	21
54	SPADE-E2VID: Spatially-Adaptive Denormalization for Event-Based Video Reconstruction. IEEE Transactions on Image Processing, 2021, 30, 2488-2500.	6.0	21

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55	CyberC3: A Prototype Cybernetic Transportation System for Urban Applications. IEEE Transactions on Intelligent Transportation Systems, 2010, 11, 142-152.	4.7	20
56	End-to-end learning for high-precision lane keeping via multi-state model. CAAI Transactions on Intelligence Technology, 2018, 3, 185-190.	3.4	20
57	Shadow Detection and Removal for Illumination Consistency on the Road. IEEE Transactions on Intelligent Vehicles, 2020, 5, 534-544.	9.4	20
58	Hybrid Filtering Framework Based Robust Localization for Industrial Vehicles. IEEE Transactions on Industrial Informatics, 2018, 14, 941-950.	7.2	18
59	RangeLVDet: Boosting 3D Object Detection in LIDAR With Range Image and RGB Image. IEEE Sensors Journal, 2022, 22, 1391-1403.	2.4	18
60	Tracking Non-Stationary Appearances and Dynamic Feature Selection. , 0, , .		17
61	Magnetic Sensing System Design for Intelligent Vehicle Guidance. IEEE/ASME Transactions on Mechatronics, 2010, 15, 652-656.	3.7	17
62	Hierarchical Neighborhood Based Precise Localization for Intelligent Vehicles in Urban Environments. IEEE Transactions on Intelligent Vehicles, 2016, 1, 220-229.	9.4	17
63	Self-adapting part-based pedestrian detection using a fish-eye camera. , 2017, , .		16
64	Simulation of Multi-Agent based Cybernetic Transportation System. Simulation Modelling Practice and Theory, 2008, 16, 1606-1614.	2.2	15
65	Map-Enhanced Ego-Lane Detection in the Missing Feature Scenarios. IEEE Access, 2020, 8, 107958-107968.	2.6	15
66	LiDAR SLAM Based Multivehicle Cooperative Localization Using Iterated Split CIF. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 21137-21147.	4.7	15
67	Curvature Map-Based Magnetic Guidance for Automated Vehicles in an Urban Environment. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 3541-3552.	4.7	13
68	Multi-Reward Architecture based Reinforcement Learning for Highway Driving Policies. , 2019, , .		13
69	BAANet: Learning Bi-directional Adaptive Attention Gates for Multispectral Pedestrian Detection. , 2022, , .		13
70	Vision Based Global Localization for Intelligent Vehicles. , 0, , .		12
71	Fusing geometrical and visual information via superpoints for the semantic segmentation of 3D road scenes. Tsinghua Science and Technology, 2020, 25, 498-507.	4.1	12
72	Gated-Residual Block for Semantic Segmentation Using RGB-D Data. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 11836-11844.	4.7	12

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73	Pedestrian Graph +: A Fast Pedestrian Crossing Prediction Model Based on Graph Convolutional Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 21050-21061.	4.7	12
74	Cubature Split Covariance Intersection Filter-Based Point Set Registration. IEEE Transactions on Image Processing, 2018, 27, 3942-3953.	6.0	10
75	Assessing Image Retrieval Quality at the First Glance. IEEE Transactions on Image Processing, 2018, 27, 6124-6134.	6.0	10
76	Mapping and Localization using Semantic Road Marking with Centimeter-level Accuracy in Indoor Parking Lots. , 2019, , .		10
77	Efficient Optimal Kernel Placement for Reliable Visual Tracking. , 0, , .		9
78	Ground Texture Matching based Global Localization for Intelligent Vehicles in Urban Environment. Intelligent Vehicles Symposium, 2009 IEEE, 2007, , .	0.0	9
79	Self-defensive coordinated maneuvering of an intelligent vehicle platoon in mixed traffic. , 2012, , .		9
80	An overview on sensor map based localization for automated driving. , 2017, , .		9
81	Pedestrian Feature Generation in Fish-Eye Images via Adversary. , 2018, , .		9
82	Monocular pedestrian orientation estimation based on deep 2D-3D feedforward. Pattern Recognition, 2020, 100, 107182.	5.1	9
83	Point Cloud Registration Based on Direct Deep Features With Applications in Intelligent Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 13346-13357.	4.7	9
84	<title>Vision-based real-time road detection in urban traffic</title>. , 2002, 4666, 75.		8
85	Intelligent Collaborative Tracking by Mining Auxiliary Objects. , 0, , .		8
86	SVM based people counting method in the corridor scene using a single-layer laser scanner. , 2016, , .		8
87	CentroidReg: A Global-to-Local Framework for Partial Point Cloud Registration. IEEE Robotics and Automation Letters, 2021, 6, 2533-2540.	3.3	8
88	Virtual Obstacles Based Path Planning for Mobile Robots. Jiqiren/Robot, 2011, 33, 273-278.	0.4	8
89	Landmark Pair based Localization for Intelligent Vehicles using Laser Radar. Intelligent Vehicles Symposium, 2009 IEEE, 2007, , .	0.0	7
90	Position estimation for intelligent vehicles using an unscented Kalman filter. International Journal of Vehicle Autonomous Systems, 2008, 6, 186.	0.2	7

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91	Road DNA based localization for autonomous vehicles. , 2016, , .		7
92	Accurate 3D Localization Using RGB-TOF Camera and IMU for Industrial Mobile Robots. Robotica, 2021, 39, 1816-1833.	1.3	7
93	An Online Approach for Gesture Recognition Toward Real-World Applications. Lecture Notes in Computer Science, 2017, , 262-272.	1.0	7
94	The Intelligent Vehicle Coordination of the Cybernetic Transportation System. International Journal of Advanced Robotic Systems, 2009, 6, 2.	1.3	6
95	Shadow detection and removal for illumination consistency on the road. , 2017, , .		6
96	3D Object Representation Learning: A Set-to-Set Matching Perspective. IEEE Transactions on Image Processing, 2021, 30, 2168-2179.	6.0	6
97	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.	3.4	6
98	Prioritized Experience Replay-Based Deep Q Learning: Multiple-Reward Architecture for Highway Driving Decision Making. IEEE Robotics and Automation Magazine, 2021, 28, 21-31.	2.2	6
99	G3DOA: Generalizable 3D Descriptor With Overlap Attention for Point Cloud Registration. IEEE Robotics and Automation Letters, 2022, 7, 2541-2548.	3.3	6
100	ATF-3D: Semi-Supervised 3D Object Detection With Adaptive Thresholds Filtering Based on Confidence and Distance. IEEE Robotics and Automation Letters, 2022, 7, 10573-10580.	3.3	6
101	<title>Vision-based real-time obstacle detection and tracking for autonomous vehicle guidance</title>. , 2002, , .		5
102	Laser radar based real-time ego-motion estimation for intelligent vehicles. , 0, , .		5
103	Vision based real-time pose estimation for intelligent vehicles. , 0, , .		5
104	Laser Radar based Vehicle Localization in GPS Signal Blocked Areas. International Journal of Computational Intelligence Systems, 2011, 4, 1100-1109.	1.6	5
105	A robust terrain-based road vehicle localization algorithm. , 2016, , .		5
106	Self-Guided Hash Coding for Large-Scale Person Re-identification. , 2019, , .		5
107	Adversarial Training-Based Hard Example Mining for Pedestrian Detection in Fish-Eye Images. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 7688-7698.	4.7	5
108	Joint Localization Based on Split Covariance Intersection on the Lie Group. IEEE Transactions on Robotics, 2021, 37, 1508-1524.	7.3	5

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109	Adaptive Cubature Split Covariance Intersection Filter for Multi-Vehicle Cooperative Localization. IEEE Robotics and Automation Letters, 2022, 7, 1158-1165.	3.3	5
110	Split Covariance Intersection Filter based Front-Vehicle Track Estimation for Vehicle Platooning without Communication. , 2020, , .		5
111	Inertial Navigation System Based Vehicle Temporal Relative Localization With Split Covariance Intersection Filter. IEEE Robotics and Automation Letters, 2022, 7, 5270-5277.	3.3	5
112	Hy-Seg: A Hybrid Method for Ground Segmentation Using Point Clouds. IEEE Transactions on Intelligent Vehicles, 2023, 8, 1597-1606.	9.4	5
113	A New Approach to High-accuracy Road Orthophoto Mapping Based on Wavelet Transform. International Journal of Computational Intelligence Systems, 2011, 4, 1367-1374.	1.6	4
114	Improved Intelligent Vehicle Localization Using Magnetic Ruler. International Journal of Computational Intelligence Systems, 2011, 4, 394-401.	1.6	4
115	An extended probabilistic self-localization algorithm using hybrid maps. , 2014, , .		4
116	An improved frequency tracking strategy in ultrasonic transducer. , 2016, , .		4
117	Occupancy grid based urban localization using weighted point cloud. , 2016, , .		4
118	Gaussian mixture model-signature quadratic form distance based point set registration. , 2017, , .		4
119	SteeringLoss: Theory and Application for Steering Prediction. , 2019, , .		4
120	A Terrain-Based Vehicle Localization Approach Robust to Braking. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2923-2932.	4.7	4
121	VRDriving: A Virtual-to-Real Autonomous Driving Framework Based on Adversarial Learning. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 912-921.	2.6	4
122	Ground Feature Point Matching Based Global Localization for Driverless Vehicles. Jiqiren/Robot, 2010, 32, 55-60.	0.4	4
123	Global and Local Path Planning of MicroIV for Traffic Flow Modeling and Simulation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 502-507.	0.4	3
124	Multi-Lane Detection via Multi-Task Network in Various Road Scenes. , 2018, , .		3
125	Micro-Vehicle-Based Automatic Parking Path Planning. , 2018, , .		3
126	A Unified Hierarchical Convolutional Neural Network for Fine-grained Traffic Sign Detection. , 2018, , .		3

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127	MicroIV: A Cooperative Driving Hardware Simulation Platform for Cooperative-ITS. IEEE Transactions on Vehicular Technology, 2018, 67, 9173-9182.	3.9	3
128	Your clicks reveal your secrets: a novel user-device linking method through network and visual data. Multimedia Tools and Applications, 2019, 78, 8337-8362.	2.6	3
129	3D Semantic Modelling With Label Correction For Extensive Outdoor Scene. , 2019, , .		3
130	G2P: a new descriptor for pedestrian detection. Neural Computing and Applications, 2020, 32, 4665-4674.	3.2	3
131	Precise and Reliable Localization of Intelligent Vehicles for Safe Driving. Advances in Intelligent Systems and Computing, 2017, , 1103-1115.	0.5	3
132	A Novel System for Guiding Unmanned Vehicles Based on Human Gesture Recognition. , 2020, , .		3
133	Real-time pose estimation for outdoor mobile robots using range data. , 0, , .		2
134	CyberTORCS: An Intelligent Vehicles Simulation Platform for Cooperative Driving. International Journal of Computational Intelligence Systems, 2011, 4, 378-385.	1.6	2
135	Graph-based SLAM based magnet map generation for magnetic guidance. , 2014, , .		2
136	Cubature Kalman Filter based point set registration for SLAM. , 2016, , .		2
137	Monocular Visual-Inertial Odometry Based on Sparse Feature Selection with Adaptive Grid. , 2018, , .		2
138	Autonomous Exploration for Automated Valet Parking Based on Road Structure. , 2019, , .		2
139	Graph Matching Pose SLAM based on Road Network Information. , 2019, , .		2
140	SteeringLoss: A Cost-Sensitive Loss Function for the End-to-End Steering Estimation. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 1104-1113.	4.7	2
141	CyberTORCS: An Intelligent Vehicles Simulation Platform for Cooperative Driving. International Journal of Computational Intelligence Systems, 2011, 4, 378.	1.6	2
142	Stixel World Based Long-Term Object Tracking for Intelligent Driving. Communications in Computer and Information Science, 2017, , 113-118.	0.4	2
143	Curvature Adaptive Control Based Path Following for Automatic Driving Vehicles in Private Area. Journal of Shanghai Jiaotong University (Science), 2021, 26, 690-698.	0.5	2
144	Time-of-Flight Camera Based Indoor Parking Localization Leveraging Manhattan World Regulation. , 2020, , .		2

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145	Real-time vision based ego-motion estimation for outdoor mobile robot. , 0, , .		1
146	A new approach for autonomous vehicle navigation in urban scenarios based on roadway Magnets. , 2014, , .		1
147	Research on localization and alignment technology for transfer cask. Fusion Engineering and Design, 2015, 96-97, 378-382.	1.0	1
148	G2P: A new descriptor for pedestrian detection. , 2017, , .		1
149	MPC-Based Path Planning for Lane Changing in Highway Environment. , 2018, , .		1
150	Putting the Anchors Efficiently: Geometric Constrained Pedestrian Detection. Lecture Notes in Computer Science, 2019, , 387-403.	1.0	1
151	Multiple Vehicles Merging Control via Sequence and Trajectory Optimization. Communications in Computer and Information Science, 2019, , 415-424.	0.4	1
152	Multi-Vehicle Cooperative Local Mapping Using Split Covariance Intersection Filter. , 2019, , .		1
153	Semantic-Based Road Segmentation for High-Definition Map Construction. Communications in Computer and Information Science, 2021, , 527-537.	0.4	1
154	Improved Intelligent Vehicle Localization Using Magnetic Ruler. International Journal of Computational Intelligence Systems, 2011, 4, 394.	1.6	1
155	Multi-Vehicle Cooperative SLAM Using Iterated Split Covariance Intersection Filter. , 2021, , .		1
156	A Novel IM Sync Message-Based Cross-Device Tracking. Security and Communication Networks, 2020, 2020, 1-15.	1.0	1
157	AGBM: An Adaptive Gradient Balanced Mechanism for the End-to-End Steering Estimation. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 16016-16025.	4.7	1
158	Constrained submap algorithm for simultaneous localization and mapping. Journal of Shanghai Jiaotong University (Science), 2009, 14, 600-605.	0.5	0
159	A new trial towards the development of centrifugal blood pump for the children with cardiac failure: Numerical design and evaluation of a prototype. , 2012, , .		0
160	Design of a double cavities piezoelectric peristaltic pump with finite element method. , 2012, , .		0
161	Lane-level orthophoto map generation using multiple onboard cameras. , 2014, , .		0
162	Panorama-Based Multilane Recognition for Advanced Navigation Map Generation. Mathematical Problems in Engineering, 2015, 2015, 1-14.	0.6	0

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163	An Efficient Hierarchical Convolutional Neural Network for Traffic Object Detection. , 2018, , .		0
164	Longitudinal and Lateral Coupling Model Based End-to-End Learning for Lane Keeping of Self-driving Cars. Communications in Computer and Information Science, 2019, , 425-436.	0.4	0
165	Pedestrian Tracking Based on Laser and Image Data Fusion. , 2019, , .		0
166	A Lane Change Detection and Filtering Approach for Precise Longitudinal Position of On-Road Vehicles. Advances in Intelligent Systems and Computing, 2017, , 897-907.	0.5	0
167	Iterative-Reweighting-Based Robust Iterative-Closest-Point Method. Journal of Shanghai Jiaotong University (Science), 2021, 26, 739-746.	0.5	0
168	Intelligent Connected Vehicle as the New Carrier Towards the Era of Connected World. Journal of Shanghai Jiaotong University (Science), 2021, 26, 559-560.	0.5	0
169	Lateral Control Method of the Follower Vehicle in Local Decentralized Platooning. , 2021, , .		0
170	Semantic Segmentation-Based Road Marking Detection Using Around View Monitoring System. Journal of Shanghai Jiaotong University (Science), 0, , 1.	0.5	0
171	HR-Planner: A Hierarchical Highway Tactical Planner based on Residual Reinforcement Learning. , 2022, , .		0