

Mohan Trivedi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99
papers

5,119
citations

36
h-index

71
g-index

104
ext. papers

6,248
ext. citations

4.6
avg, IF

6.5
L-index

#	Paper	IF	Citations
99	Gaze Preserving CycleGANs for Eyeglass Removal & Persistent Gaze Estimation. <i>IEEE Transactions on Intelligent Vehicles</i> , 2022 , 1-1	5	
98	Trajectory Prediction for Autonomous Driving based on Multi-Head Attention with Joint Agent-Map Representation 2021 ,		9
97	Autonomous Vehicles that Alert Humans to Take-Over Controls: Modeling with Real-World Data 2021 ,		1
96	. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 4907-4914	4.2	3
95	. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 7477-7484	4.2	7
94	Scene Compliant Trajectory Forecast With Agent-Centric Spatio-Temporal Grids. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 2816-2823	4.2	17
93	Looking at the Driver/Rider in Autonomous Vehicles to Predict Take-Over Readiness. <i>IEEE Transactions on Intelligent Vehicles</i> , 2020 , 5, 41-52	5	14
92	Ground Plane Polling for 6DoF Pose Estimation of Objects on the Road. <i>IEEE Transactions on Intelligent Vehicles</i> , 2020 , 5, 449-460	5	3
91	On Assessing Driver Awareness of Situational Criticalities: Multi-modal Bio-Sensing and Vision-Based Analysis, Evaluations, and Insights. <i>Brain Sciences</i> , 2020 , 10,	3.4	2
90	Driver Gaze Estimation in the Real World: Overcoming the Eyeglass Challenge 2020 ,		11
89	Looking at Hands in Autonomous Vehicles: A ConvNet Approach Using Part Affinity Fields. <i>IEEE Transactions on Intelligent Vehicles</i> , 2020 , 5, 361-371	5	6
88	No Blind Spots: Full-Surround Multi-Object Tracking for Autonomous Vehicles Using Cameras and LiDARs. <i>IEEE Transactions on Intelligent Vehicles</i> , 2019 , 4, 588-599	5	42
87	3D BAT: A Semi-Automatic, Web-based 3D Annotation Toolbox for Full-Surround, Multi-Modal Data Streams 2019 ,		8
86	2019 ,		2
85	Looking at Vehicles in the Night: Detection and Dynamics of Rear Lights. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019 , 20, 4297-4307	6.1	19
84	Dynamics of Driver's Gaze: Explorations in Behavior Modeling and Maneuver Prediction. <i>IEEE Transactions on Intelligent Vehicles</i> , 2018 , 3, 141-150	5	45
83	How Would Surround Vehicles Move? A Unified Framework for Maneuver Classification and Motion Prediction. <i>IEEE Transactions on Intelligent Vehicles</i> , 2018 , 3, 129-140	5	122

82	When Vehicles See Pedestrians With Phones: A Multicue Framework for Recognizing Phone-Based Activities of Pedestrians. <i>IEEE Transactions on Intelligent Vehicles</i> , 2018 , 3, 218-227	5	7
81	Convolutional Social Pooling for Vehicle Trajectory Prediction 2018 ,		190
80	Exploring the Situational Awareness of Humans inside Autonomous Vehicles 2018 ,		10
79	An Occluded Stacked Hourglass Approach to Facial Landmark Localization and Occlusion Estimation. <i>IEEE Transactions on Intelligent Vehicles</i> , 2017 , 2, 321-331	5	11
78	Signal Processing for Smart Vehicle Technologies [From the Guest Editors]. <i>IEEE Signal Processing Magazine</i> , 2016 , 33, 12-13	9.4	4
77	Trajectories and Maneuvers of Surrounding Vehicles With Panoramic Camera Arrays. <i>IEEE Transactions on Intelligent Vehicles</i> , 2016 , 1, 203-214	5	28
76	What makes an on-road object important? 2016 ,		1
75	RefineNet: Refining Object Detectors for Autonomous Driving. <i>IEEE Transactions on Intelligent Vehicles</i> , 2016 , 1, 358-368	5	23
74	Vision for Looking at Traffic Lights: Issues, Survey, and Perspectives. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016 , 17, 1800-1815	6.1	98
73	Multipart Vehicle Detection Using Symmetry-Derived Analysis and Active Learning. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016 , 17, 926-937	6.1	42
72	Looking at Humans in the Age of Self-Driving and Highly Automated Vehicles. <i>IEEE Transactions on Intelligent Vehicles</i> , 2016 , 1, 90-104	5	125
71	To boost or not to boost? On the limits of boosted trees for object detection 2016 ,		47
70	Vision-Based Front and Rear Surround Understanding Using Embedded Processors. <i>IEEE Transactions on Intelligent Vehicles</i> , 2016 , 1, 335-345	5	4
69	Hidden Hands: Tracking Hands with an Occlusion Aware Tracker 2016 ,		9
68	Detection and localization with multi-scale models 2016 ,		2
67	Pedestrians and their phones - detecting phone-based activities of pedestrians for autonomous vehicles 2016 ,		7
66	Drive Analysis Using Vehicle Dynamics and Vision-Based Lane Semantics. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015 , 16, 9-18	6.1	57
65	On Performance Evaluation of Driver Hand Detection Algorithms: Challenges, Dataset, and Metrics 2015 ,		42

64	Traffic Light Detection: A Learning Algorithm and Evaluations on Challenging Dataset 2015 ,		29
63	Vision on Wheels: Looking at Driver, Vehicle, and Surround for On-Road Maneuver Analysis 2014 ,		9
62	Continuous Head Movement Estimator for Driver Assistance: Issues, Algorithms, and On-Road Evaluations. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014 , 15, 818-830	6.1	69
61	Fast and Robust Object Detection Using Visual Subcategories 2014 ,		22
60	Drive analysis using lane semantics for data reduction in naturalistic driving studies 2014 ,		15
59	Beyond just keeping hands on the wheel: Towards visual interpretation of driver hand motion patterns 2014 ,		17
58	Looking-in and looking-out vision for Urban Intelligent Assistance: Estimation of driver attentive state and dynamic surround for safe merging and braking 2014 ,		39
57	Dynamic Probabilistic Drivability Maps for Lane Change and Merge Driver Assistance. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014 , 15, 2063-2073	6.1	53
56	Efficient Lane and Vehicle Detection with Integrated Synergies (ELVIS) 2014 ,		26
55	Active learning for on-road vehicle detection: a comparative study. <i>Machine Vision and Applications</i> , 2014 , 25, 599-611	2.8	60
54	Looking at Vehicles on the Road: A Survey of Vision-Based Vehicle Detection, Tracking, and Behavior Analysis. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2013 , 14, 1773-1795	6.1	544
53	Integrated Lane and Vehicle Detection, Localization, and Tracking: A Synergistic Approach. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2013 , 14, 906-917	6.1	115
52	Panoramic stitching for driver assistance and applications to motion saliency-based risk analysis 2013 ,		4
51	The Power Is in Your Hands: 3D Analysis of Hand Gestures in Naturalistic Video 2013 ,		25
50	Joint Angles Similarities and HOG2 for Action Recognition 2013 ,		139
49	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2013 , 14, 1346-1359	6.1	63
48	Vision-Based Lane Analysis: Exploration of Issues and Approaches for Embedded Realization 2013 ,		24
47	3-D Posture and Gesture Recognition for Interactivity in Smart Spaces. <i>IEEE Transactions on Industrial Informatics</i> , 2012 , 8, 178-187	11.9	85

46	Vision-Based Traffic Sign Detection and Analysis for Intelligent Driver Assistance Systems: Perspectives and Survey. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2012 , 13, 1484-1497	6.1	322
45	Human Pose Estimation and Activity Recognition From Multi-View Videos: Comparative Explorations of Recent Developments. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2012 , 6, 538-552	7.5	86
44	On-road prediction of driver's intent with multimodal sensory cues. <i>IEEE Pervasive Computing</i> , 2011 , 10, 22-34	1.3	80
43	Learning multi-lane trajectories using vehicle-based vision 2011 ,		28
42	Lidar based off-road negative obstacle detection and analysis 2011 ,		30
41	Vehicle Iconic Surround Observer: Visualization platform for intelligent driver support applications 2010 ,		13
40	A General Active-Learning Framework for On-Road Vehicle Recognition and Tracking. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2010 , 11, 267-276	6.1	245
39	Head Pose Estimation and Augmented Reality Tracking: An Integrated System and Evaluation for Monitoring Driver Awareness. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2010 , 11, 300-311	6.1	169
38	Audiovisual Information Fusion in Human-Computer Interfaces and Intelligent Environments: A Survey. <i>Proceedings of the IEEE</i> , 2010 , 98, 1692-1715	14.3	75
37	Introducing XMOB Extremity Movement Observation Framework for Upper Body Pose Tracking in 3D 2009 ,		8
36	A multi camera system for soccer player performance evaluation 2009 ,		3
35	Unsupervised learning of motion patterns of rear surrounding vehicles 2009 ,		11
34	Head and gaze dynamics in visual attention and context learning 2009 ,		16
33	Learning trajectory patterns by clustering: Experimental studies and comparative evaluation 2009 ,		103
32	Learning, Modeling, and Classification of Vehicle Track Patterns from Live Video. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2008 , 9, 425-437	6.1	131
31	Person Surveillance Using Visual and Infrared Imagery. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2008 , 18, 1096-1105	6.4	38
30	Learning and Classification of Trajectories in Dynamic Scenes: A General Framework for Live Video Analysis 2008 ,		30
29	A Survey of Vision-Based Trajectory Learning and Analysis for Surveillance. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2008 , 18, 1114-1127	6.4	306

28	Human body modelling and tracking using volumetric representation: Selected recent studies and possibilities for extensions 2008 ,		2
27	3D tracking and dynamic analysis of human head movements and attentional targets 2008 ,		7
26	An adaptive scene description for activity analysis in surveillance video 2008 ,		4
25	Particle filtering with rendered models: A two pass approach to multi-object 3D tracking with the GPU 2008 ,		7
24	Hand modeling and tracking from voxel data: An integrated framework with automatic initialization 2008 ,		2
23	Video and Seismic Sensor-Based Structural Health Monitoring: Framework, Algorithms, and Implementation. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2007 , 8, 169-180	6.1	14
22	Real-Time Video Based Highway Traffic Measurement and Performance Monitoring 2007 ,		7
21	On Color-, Infrared-, and Multimodal-Stereo Approaches to Pedestrian Detection. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2007 , 8, 619-629	6.1	64
20	Looking-In and Looking-Out of a Vehicle: Computer-Vision-Based Enhanced Vehicle Safety. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2007 , 8, 108-120	6.1	197
19	Multi-person interaction and activity analysis: a synergistic track- and body-level analysis framework. <i>Machine Vision and Applications</i> , 2007 , 18, 151-166	2.8	34
18	Person tracking and reidentification: Introducing Panoramic Appearance Map (PAM) for feature representation. <i>Machine Vision and Applications</i> , 2007 , 18, 207-220	2.8	40
17	Satellite imagery based adaptive background models and shadow suppression. <i>Signal, Image and Video Processing</i> , 2007 , 1, 119-132	1.6	6
16	A Comparison of Color and Infrared Stereo Approaches to Pedestrian Detection. <i>Intelligent Vehicles Symposium, 2009 IEEE</i> , 2007 ,		6
15	Pedestrian Protection Systems: Issues, Survey, and Challenges. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2007 , 8, 413-430	6.1	353
14	Video Based Surround Vehicle Detection, Classification and Logging from Moving Platforms: Issues and Approaches. <i>Intelligent Vehicles Symposium, 2009 IEEE</i> , 2007 ,		21
13	Head Pose Estimation for Driver Assistance Systems: A Robust Algorithm and Experimental Evaluation 2007 ,		101
12	Registration of Multimodal Stereo Images Using Disparity Voting from Correspondence Windows 2006 ,		5
11	Panoramic Appearance Map (PAM) for Multi-camera Based Person Re-identification 2006 ,		15

10	Parametric ego-motion estimation for vehicle surround analysis using an omnidirectional camera. <i>Machine Vision and Applications</i> , 2005 , 16, 85-95	2.8	47
9	Driver activity analysis for intelligent vehicles: issues and development framework 2005 ,		17
8	Motion analysis for event detection and tracking with a mobile omnidirectional camera. <i>Multimedia Systems</i> , 2004 , 10, 131-143	2.2	7
7	Human movement capture and analysis in intelligent environments. <i>Machine Vision and Applications</i> , 2003 , 14, 215-217	2.8	7
6	Video arrays for real-time tracking of person, head, and face in an intelligent room. <i>Machine Vision and Applications</i> , 2003 , 14, 103-111	2.8	36
5	Generalized Multiple Baseline Stereo and Direct Virtual View Synthesis Using Range-Space Search, Match, and Render. <i>International Journal of Computer Vision</i> , 2002 , 47, 131-147	10.6	6
4	Active Camera Networks and Semantic Event Databases for Intelligent Environments. <i>IETE Journal of Research</i> , 2002 , 48, 295-302	0.9	2
3	REFLICS: Real-time flow imaging and classification system. <i>Machine Vision and Applications</i> , 2001 , 13, 1-13	2.8	7
2	Head and gaze dynamics in visual attention and context learning		5
1	Learning trajectory patterns by clustering: Experimental studies and comparative evaluation		15