

Mohan Trivedi

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2844009/mohan-trivedi-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
98	Pedestrian Protection Systems: Issues, Survey, and Challenges. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2007 , 8, 413-430	6.1	353
97	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
96	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
95	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
94	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
93	Convolutional Social Pooling for Vehicle Trajectory Prediction 2018 ,		190
92	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
91	Joint Angles Similarities and HOG2 for Action Recognition 2013 ,		139
90	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
89	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
88	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
87	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
86	Learning trajectory patterns by clustering: Experimental studies and comparative evaluation 2009 ,		103
85	Head Pose Estimation for Driver Assistance Systems: A Robust Algorithm and Experimental Evaluation 2007 ,		101
84	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
83	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

82	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
81	On-road prediction of driver's intent with multimodal sensory cues. <i>IEEE Pervasive Computing</i> , 2011 , 10, 22-34	1.3	80
80	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
79	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
78	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
77	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2013 , 14, 1346-1359	6.1	63
76	Active learning for on-road vehicle detection: a comparative study. <i>Machine Vision and Applications</i> , 2014 , 25, 599-611	2.8	60
75	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
74	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
73	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
72	To boost or not to boost? On the limits of boosted trees for object detection 2016 ,		47
71	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
70	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
69	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
68	On Performance Evaluation of Driver Hand Detection Algorithms: Challenges, Dataset, and Metrics 2015 ,		42
67	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
66	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
65	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

64	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
63	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
62	Lidar based off-road negative obstacle detection and analysis 2011 ,		30
61	Learning and Classification of Trajectories in Dynamic Scenes: A General Framework for Live Video Analysis 2008 ,		30
60	Traffic Light Detection: A Learning Algorithm and Evaluations on Challenging Dataset 2015 ,		29
59	Trajectories and Maneuvers of Surrounding Vehicles With Panoramic Camera Arrays. <i>IEEE Transactions on Intelligent Vehicles</i> , 2016 , 1, 203-214	5	28
58	Learning multi-lane trajectories using vehicle-based vision 2011 ,		28
57	Efficient Lane and Vehicle Detection with Integrated Synergies (ELVIS) 2014 ,		26
56	The Power Is in Your Hands: 3D Analysis of Hand Gestures in Naturalistic Video 2013 ,		25
55	Vision-Based Lane Analysis: Exploration of Issues and Approaches for Embedded Realization 2013 ,		24
54	RefineNet: Refining Object Detectors for Autonomous Driving. <i>IEEE Transactions on Intelligent Vehicles</i> , 2016 , 1, 358-368	5	23
53	Fast and Robust Object Detection Using Visual Subcategories 2014 ,		22
52	Video Based Surround Vehicle Detection, Classification and Logging from Moving Platforms: Issues and Approaches. <i>Intelligent Vehicles Symposium, 2009 IEEE</i> , 2007 ,		21
51	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
50	Scene Compliant Trajectory Forecast With Agent-Centric Spatio-Temporal Grids. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 2816-2823	4.2	17
49	Beyond just keeping hands on the wheel: Towards visual interpretation of driver hand motion patterns 2014 ,		17
48	Driver activity analysis for intelligent vehicles: issues and development framework 2005 ,		17
47	Head and gaze dynamics in visual attention and context learning 2009 ,		16

46	Drive analysis using lane semantics for data reduction in naturalistic driving studies 2014,		15
45	Panoramic Appearance Map (PAM) for Multi-camera Based Person Re-identification 2006,		15
44	Learning trajectory patterns by clustering: Experimental studies and comparative evaluation		15
43	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
42	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
41	Vehicle Iconic Surround Observer: Visualization platform for intelligent driver support applications 2010,		13
40	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
39	Unsupervised learning of motion patterns of rear surrounding vehicles 2009,		11
38	Driver Gaze Estimation in the Real World: Overcoming the Eyeglass Challenge 2020,		11
37	Exploring the Situational Awareness of Humans inside Autonomous Vehicles 2018,		10
36	Vision on Wheels: Looking at Driver, Vehicle, and Surround for On-Road Maneuver Analysis 2014,		9
35	Trajectory Prediction for Autonomous Driving based on Multi-Head Attention with Joint Agent-Map Representation 2021,		9
34	Hidden Hands: Tracking Hands with an Occlusion Aware Tracker 2016,		9
33	3D BAT: A Semi-Automatic, Web-based 3D Annotation Toolbox for Full-Surround, Multi-Modal Data Streams 2019,		8
32	Introducing XMOB Extremity Movement Observation Framework for Upper Body Pose Tracking in 3D 2009,		8
31	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
30	3D tracking and dynamic analysis of human head movements and attentional targets 2008,		7
29	Particle filtering with rendered models: A two pass approach to multi-object 3D tracking with the GPU 2008,		7

28	Real-Time Video Based Highway Traffic Measurement and Performance Monitoring 2007 ,		7
27	Motion analysis for event detection and tracking with a mobile omnidirectional camera. <i>Multimedia Systems</i> , 2004 , 10, 131-143	2.2	7
26	Human movement capture and analysis in intelligent environments. <i>Machine Vision and Applications</i> , 2003 , 14, 215-217	2.8	7
25	REFLICS: Real-time flow imaging and classification system. <i>Machine Vision and Applications</i> , 2001 , 13, 1-13	2.8	7
24	Pedestrians and their phones - detecting phone-based activities of pedestrians for autonomous vehicles 2016 ,		7
23	. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 7477-7484	4.2	7
22	Satellite imagery based adaptive background models and shadow suppression. <i>Signal, Image and Video Processing</i> , 2007 , 1, 119-132	1.6	6
21	A Comparison of Color and Infrared Stereo Approaches to Pedestrian Detection. <i>Intelligent Vehicles Symposium, 2009 IEEE</i> , 2007 ,		6
20	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
19	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
18	Registration of Multimodal Stereo Images Using Disparity Voting from Correspondence Windows 2006 ,		5
17	Head and gaze dynamics in visual attention and context learning		5
16	Signal Processing for Smart Vehicle Technologies [From the Guest Editors]. <i>IEEE Signal Processing Magazine</i> , 2016 , 33, 12-13	9.4	4
15	Panoramic stitching for driver assistance and applications to motion saliency-based risk analysis 2013 ,		4
14	An adaptive scene description for activity analysis in surveillance video 2008 ,		4
13	Vision-Based Front and Rear Surround Understanding Using Embedded Processors. <i>IEEE Transactions on Intelligent Vehicles</i> , 2016 , 1, 335-345	5	4
12	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
11	A multi camera system for soccer player performance evaluation 2009 ,		3

10	. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 4907-4914	4.2	3
9	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
8	Human body modelling and tracking using volumetric representation: Selected recent studies and possibilities for extensions 2008 ,		2
7	Hand modeling and tracking from voxel data: An integrated framework with automatic initialization 2008 ,		2
6	Active Camera Networks and Semantic Event Databases for Intelligent Environments. <i>IETE Journal of Research</i> , 2002 , 48, 295-302	0.9	2
5	Detection and localization with multi-scale models 2016 ,		2
4	2019 ,		2
3	What makes an on-road object important? 2016 ,		1
2	Autonomous Vehicles that Alert Humans to Take-Over Controls: Modeling with Real-World Data 2021 ,		1
1	Gaze Preserving CycleGANs for Eyeglass Removal & Persistent Gaze Estimation. <i>IEEE Transactions on Intelligent Vehicles</i> , 2022 , 1-1	5	