

Martin

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

2,157
citations

361413

20
h-index

395702

33
g-index

127
all docs

127
docs citations

127
times ranked

1035
citing authors

#	ARTICLE	IF	CITATIONS
1	Autonomous driving. , 2015, , .		140
2	The More You Know: Trust Dynamics and Calibration in Highly Automated Driving and the Effects of Take-Overs, System Malfunction, and System Transparency. Human Factors, 2020, 62, 718-736.	3.5	106
3	A comparison of selected simple supervised learning algorithms to predict driver intent based on gaze data. Neurocomputing, 2013, 121, 108-130.	5.9	101
4	External HMI for self-driving vehicles: Which information shall be displayed?. Transportation Research Part F: Traffic Psychology and Behaviour, 2020, 68, 171-186.	3.7	97
5	Vulnerable road users and the coming wave of automated vehicles: Expert perspectives. Transportation Research Interdisciplinary Perspectives, 2021, 9, 100293.	2.7	69
6	Towards Cooperative Driving. , 2016, , .		64
7	Evaluation of in-vehicle HMI using occlusion techniques: experimental results and practical implications. Applied Ergonomics, 2004, 35, 197-205.	3.1	55
8	From Car-Driver-Handovers to Cooperative Interfaces: Visions for Driverâ€™Vehicle Interaction in Automated Driving. Human-computer Interaction Series, 2017, , 273-294.	0.6	52
9	Carrot and stick: A game-theoretic approach to motivate cooperative driving through social interaction. Transportation Research Part C: Emerging Technologies, 2018, 88, 159-175.	7.6	50
10	The study design of UDRIVE: the naturalistic driving study across Europe for cars, trucks and scooters. European Transport Research Review, 2016, 8, .	4.8	49
11	Cooperative Overtaking. , 2019, , .		42
12	A Neural Network Model for Driverâ€™s Lane-Changing Trajectory Prediction in Urban Traffic Flow. Mathematical Problems in Engineering, 2013, 2013, 1-8.	1.1	41
13	Elaborating Feedback Strategies for Maintaining Automation in Highly Automated Driving. , 2016, , .		40
14	A Longitudinal Video Study on Communicating Status and Intent for Self-Driving Vehicle - Pedestrian Interaction. , 2020, , .		39
15	Small Talk with a Robot? The Impact of Dialog Content, Talk Initiative, and Gaze Behavior of a Social Robot on Trust, Acceptance, and Proximity. International Journal of Social Robotics, 2021, 13, 1485-1498.	4.6	37
16	Real autonomous driving from a passengerâ€™s perspective: Two experimental investigations using gaze behaviour and trust ratings in field and simulator. Transportation Research Part F: Traffic Psychology and Behaviour, 2019, 66, 15-28.	3.7	35
17	Interaction design of automatic steering for collision avoidance: challenges and potentials of driver decoupling. IET Intelligent Transport Systems, 2015, 9, 95-104.	3.0	34
18	How to Design Valid Simulator Studies for Investigating User Experience in Automated Driving. , 2018, , .		32

#	ARTICLE	IF	CITATIONS
19	Light-Based External Human Machine Interface: Color Evaluation for Self-Driving Vehicle and Pedestrian Interaction. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 1232-1236.	0.3	32
20	Get Ready for Being Chauffeured. Human Factors, 2020, 62, 1322-1338.	3.5	32
21	More Than a Feelingâ€™ Interrelation of Trust Layers in Human-Robot Interaction and the Role of User Dispositions and State Anxiety. Frontiers in Psychology, 2021, 12, 592711.	2.1	32
22	Whatâ€™s Driving Me? Exploration and Validation of a Hierarchical Personality Model for Trust in Automated Driving. Human Factors, 2021, 63, 1076-1105.	3.5	30
23	Dynamic simulation and prediction of driversâ€™ attention distribution. Transportation Research Part F: Traffic Psychology and Behaviour, 2013, 21, 278-294.	3.7	29
24	Human After All. , 2016, , .		29
25	Scared to Trust? â€™ Predicting Trust in Highly Automated Driving by Depressiveness, Negative Self-Evaluations and State Anxiety. Frontiers in Psychology, 2019, 10, 2917.	2.1	29
26	Sleep in highly automated driving: Takeover performance after waking up. Accident Analysis and Prevention, 2020, 144, 105617.	5.7	27
27	Situation Awareness and Driving: A Cognitive Model. , 2007, , 253-265.		27
28	Effect of Visualization of Pedestrian Intention Recognition on Trust and Cognitive Load. , 2020, , .		27
29	Self-Driving Vehicles and Pedestrian Interaction: Does an External Human-Machine Interface Mitigate the Threat of a Tinted Windshield or a Distracted Driver?. International Journal of Human-Computer Interaction, 2021, 37, 1364-1374.	4.8	25
30	Calibration of Trust Expectancies in Conditionally Automated Driving by Brand, Reliability Information and Introductory Videos. , 2018, , .		23
31	Situational influencing factors on understanding cooperative actions in automated driving. Transportation Research Part F: Traffic Psychology and Behaviour, 2020, 70, 223-234.	3.7	23
32	Evaluation of three different interaction designs for an automatic steering intervention. Transportation Research Part F: Traffic Psychology and Behaviour, 2014, 27, 238-251.	3.7	22
33	Calibrating Pedestrians' Trust in Automated Vehicles. , 2021, , .		22
34	Two Routes to Trust Calibration. International Journal of Mobile Human Computer Interaction, 2019, 11, 1-17.	0.4	21
35	Anthropomorphic agents, transparent automation and driver personality. , 2015, , .		19
36	Designing Communication Strategies of Autonomous Vehicles with Pedestrians: An Intercultural Study. , 2020, , .		19

#	ARTICLE	IF	CITATIONS
37	Prompting in-depth learning in immersive virtual reality: Impact of an elaboration prompt on developing a mental model. <i>Computers and Education</i> , 2021, 171, 104235.	8.3	18
38	Driving and Situation Awareness: A Cognitive Model of Memory-Update Processes. <i>Lecture Notes in Computer Science</i> , 2009, , 986-994.	1.3	17
39	Differential effects of driver sleepiness and sleep inertia on driving behavior. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2021, 82, 111-120.	3.7	17
40	Using Pattern Recognition to Predict Driver Intent. <i>Lecture Notes in Computer Science</i> , 2011, , 140-149.	1.3	16
41	Design Guidelines for Reliability Communication in Autonomous Vehicles. , 2018, , .		16
42	Insight into cooperation processes for traffic scenarios: modelling with naturalistic decision making. <i>Cognition, Technology and Work</i> , 2018, 20, 621-635.	3.0	16
43	Comparing dynamic and static illustration of an HMI for cooperative driving. <i>Accident Analysis and Prevention</i> , 2020, 144, 105682.	5.7	16
44	A meta-analysis of the n-back task while driving and its effects on cognitive workload. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2021, 76, 269-285.	3.7	16
45	When cooperation is needed: the effect of spatial and time distance and criticality on willingness to cooperate. <i>Cognition, Technology and Work</i> , 2019, 21, 21-31.	3.0	15
46	Development and Testing of Psychological Conflict Resolution Strategies for Assertive Robots to Resolve Humanâ€“Robot Goal Conflict. <i>Frontiers in Robotics and AI</i> , 2020, 7, 591448.	3.2	15
47	Step Aside! VR-Based Evaluation of Adaptive Robot Conflict Resolution Strategies for Domestic Service Robots. <i>International Journal of Social Robotics</i> , 2022, 14, 1239-1260.	4.6	15
48	Implicit intention communication as a design opportunity for automated vehicles: Understanding driversâ€™ interpretation of vehicle trajectory at narrow passages. <i>Accident Analysis and Prevention</i> , 2022, 173, 106691.	5.7	15
49	Sleep inertia in automated driving: Post-sleep take-over and driving performance. <i>Accident Analysis and Prevention</i> , 2021, 150, 105918.	5.7	14
50	Navigating with Augmented Reality â€“ How does it affect driversâ€™ mental load?. <i>Applied Ergonomics</i> , 2021, 94, 103398.	3.1	14
51	Findings From A Qualitative Field Study with An Autonomous Robot in Public: Exploration of User Reactions and Conflicts. <i>International Journal of Social Robotics</i> , 2022, 14, 1625-1655.	4.6	14
52	A Comprehension Based Cognitive Model of Situation Awareness. <i>Lecture Notes in Computer Science</i> , 2009, , 192-201.	1.3	13
53	Click or Hold. , 2018, , .		13
54	The effect of visual HMIs of a system assisting manual drivers in manoeuvre coordination in system limit and system failure situations. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2020, 74, 81-94.	3.7	13

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55	Driver behavior following an automatic steering intervention. Accident Analysis and Prevention, 2015, 83, 190-196.	5.7	12
56	Touch Screen Maneuver Approval Mechanisms for Highly Automated Vehicles. , 2017, , .		12
57	â€œDo I really need it?â€ An explorative study of acceptance and usage of in-vehicle technology. Transportation Research Part F: Traffic Psychology and Behaviour, 2022, 84, 65-82.	3.7	12
58	Efficient Paradigm to Measure Street-Crossing Onset Time of Pedestrians in Video-Based Interactions with Vehicles. Information (Switzerland), 2020, 11, 360.	2.9	11
59	Investigating the Validity of Online Robot Evaluations: Comparison of Findings from an One-Sample Online and Laboratory Study. , 2021, , .		11
60	Yielding Light Signal Evaluation for Self-driving Vehicle and Pedestrian Interaction. Advances in Intelligent Systems and Computing, 2020, , 189-194.	0.6	10
61	A subjective one-item measure based on NASA-TLX to assess cognitive workload in driver-vehicle interaction. Transportation Research Part F: Traffic Psychology and Behaviour, 2022, 86, 210-225.	3.7	10
62	Autonomous Driving. International Journal of Mobile Human Computer Interaction, 2017, 9, 58-74.	0.4	9
63	How to support cooperative driving by HMI design?. Transportation Research Interdisciplinary Perspectives, 2019, 3, 100064.	2.7	9
64	Effects of explaining system failures during maneuver coordination while driving manual or automated. Accident Analysis and Prevention, 2020, 148, 105839.	5.7	9
65	Situation Awareness and Secondary Task Performance While Driving. Lecture Notes in Computer Science, 2007, , 256-263.	1.3	9
66	Look ahead: understanding cognitive anticipatory processes based on situational characteristics in dynamic traffic situations. IET Intelligent Transport Systems, 2020, 14, 233-240.	3.0	9
67	Pedestrian assessment: Is displaying automated driving mode in self-driving vehicles as relevant as emitting an engine sound in electric vehicles?. Applied Ergonomics, 2021, 94, 103425.	3.1	8
68	Measuring driver-vehicle cooperation: Development and validation of the Human-Machine-Interaction-Interdependence Questionnaire (HMII). Transportation Research Part F: Traffic Psychology and Behaviour, 2021, 83, 424-439.	3.7	8
69	Developing a model of driver's uncertainty in lane change situations for trustworthy lane change decision aid systems. , 2016, , .		7
70	Assessing crossing and communication behavior of pedestrians at urban streets. Transportation Research Part F: Traffic Psychology and Behaviour, 2021, 80, 341-358.	3.7	7
71	Development of a Lane Change Assistance System Adapting to Driver's Uncertainty During Decision-Making. , 2016, , .		6
72	A measurement to driving situation awareness in signalized intersections. Transportation Research, Part D: Transport and Environment, 2018, 62, 739-747.	6.8	6

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73	Immersive virtual reality or auditory text first? Effects of adequate sequencing and prompting on learning outcome. British Journal of Educational Technology, 2021, 52, 2058-2076.	6.3	6
74	From SAE-Levels to Cooperative Task Distribution:An Efficient and Usable Way to Deal with System Limitations?. , 2021, , .		6
75	Does crossing the road in a group influence pedestriansâ€™ gaze behavior?. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 1938-1942.	0.3	6
76	Towards a Cooperative Driver-Vehicle Interface: Enhancing Drivers' Perception of Cyclists through Augmented Reality. , 2020, , .		6
77	A Modular and Scalable Application Platform for Testing and Evaluating Its Components. , 2011, , .		5
78	1st Workshop on Situational Awareness in Semi-Automated Vehicles. , 2016, , .		5
79	1st Workshop on Understanding Automation. , 2017, , .		5
80	Help me make a dinner! Challenges when assisting humans in action planning. , 2017, , .		5
81	Social interactions in traffic: The effect of external factors. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 97-101.	0.3	5
82	Solving Cooperative Situations: Strategic Driving Decisions Depending on Perceptions and Expectations About Other Drivers. Lecture Notes in Networks and Systems, 2021, , 742-750.	0.7	5
83	Intelligent Mobility in the City: The Influence of System and Context Factors on Driversâ€™ Takeover Willingness and Trust in Automated Vehicles. Frontiers in Human Dynamics, 2021, 3, .	1.8	5
84	Come Closer: Experimental Investigation of Robotsâ€™ Appearance on Proximity, Affect and Trust in a Domestic Environment. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 395-399.	0.3	5
85	After you: Merging at Highway On-Ramps. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 1105-1109.	0.3	5
86	Motivated to Use: Beliefs and Motivation Influencing the Acceptance and Use of Assistance and Navigation Systems. International Journal of Human-Computer Interaction, 2023, 39, 2926-2941.	4.8	5
87	Online experiments as a supplement of automated driving simulator studies. , 2019, , .		4
88	Stuck behind a truck. , 2019, , .		4
89	Reducing uncertainty by anticipation in traffic â€“ The effect of situational characteristics and criticality on behavioral, subjective, and psychophysiological parameters. Transportation Research Part F: Traffic Psychology and Behaviour, 2020, 75, 173-186.	3.7	4
90	â€œTo Go or Not To Go? That is the Questionâ€: When In-Vehicle Agents Argue with Each Other. , 2021, , .		4

#	ARTICLE	IF	CITATIONS
91	Effects of Situational Characteristics on Driversâ€™ Merging into Freeway Traffic. , 2011, , 343-351.		4
92	Towards Opt-Out Permission Policies to Maximize the Use of Automated Driving. , 2019, , .		4
93	A Methodical Approach to Examine Conflicts in Context of Driver - Autonomous Vehicle - Interaction. , 0, , .		4
94	Cooperative Speed Regulation in Automated Vehicles: A Comparison Between a Touch, Pedal, and Button Interface as the Input Modality. , 2021, , .		4
95	Supporting cooperative driving behaviour by technology â€“ HMI solution, acceptance by drivers and effects on workload and driving behaviour. Transportation Research Part F: Traffic Psychology and Behaviour, 2022, 84, 139-154.	3.7	4
96	Learning from examples does not prevent order effects in belief revision. Thinking and Reasoning, 2010, 16, 98-130.	3.2	3
97	Validation of the MoSAIC-Driving Simulator â€“ Investigating the impact of a human driver on cooperative driving behavior in an experimental simulation setup. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 2052-2056.	0.3	3
98	Building driver's trust in lane change assistance systems by adapting to driver's uncertainty states. , 2017, , .		3
99	Investigating Initial Driver Intention on Overtaking on Rural Roads. , 2019, , .		3
100	Do drivers accept cooperative behavior of their automated vehicle on highways?. Transportation Research Part F: Traffic Psychology and Behaviour, 2021, 77, 236-245.	3.7	3
101	Genie vs. Jarvis: Characteristics and Design Considerations of In-Vehicle Intelligent Agents. , 2021, , .		3
102	Workshop on Human Machine Interaction in Autonomous Vehicles. , 2017, , .		2
103	Three Years ColnCar: What Cooperatively Interacting Cars Might Learn from Human Drivers. IFAC-PapersOnLine, 2019, 52, 105-110.	0.9	2
104	Spatial visualization of sensor information for automated vehicles. , 2019, , .		2
105	Tracing current explanations in memory: A process analysis based on eye-tracking. Quarterly Journal of Experimental Psychology, 2020, 73, 1703-1717.	1.1	2
106	The Influence of Predictability and Frequency of Events on the Gaze Behaviour While Driving. , 2011, , 283-290.		2
107	Designing Augmented Reality Navigation Visualizations for the Vehicle: A Question of Real World Object Coverage?. Lecture Notes in Computer Science, 2019, , 161-175.	1.3	2
108	Driving with Foresight - Evaluating the Effect of Cognitive Distraction and Experience on Anticipating Events in Traffic. , 0, , .		2

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109	From anticipation to behavioral intention: Insights into human processing of multiple retrieval cues in road traffic. Transportation Research Part F: Traffic Psychology and Behaviour, 2021, 83, 252-265.	3.7	2
110	Automation, Situation Awareness and Mental Workload. Studies in Computational Intelligence, 2022, , 3-27.	0.9	2
111	Advancing Knowledge on Situation Comprehension in Dynamic Traffic Situations by Studying Eye Movements to Empty Spatial Locations. Human Factors, 2023, 65, 1674-1688.	3.5	2
112	Developing a Highly Automated Driving Scenario to Investigate User Intervention. , 2017, , .		1
113	Cognitive psychological approach for unraveling the take-over process during automated driving. , 2019, , .		1
114	The effect of incentives in driving simulator studies. , 2019, , .		1
115	When does the driver feel ready to drive again after automated driving? â€œ A qualitative approach. IT - Information Technology, 2021, 63, 87-97.	0.9	1
116	Personality Influences on Driversâ€™ Decision to Take Back Manual Control: A Simulator Study on Automated Driving. Lecture Notes in Networks and Systems, 2021, , 726-733.	0.7	1
117	Workshop on Human-Vehicle-Environment Cooperation in Automated driving: The Next Stage of a Classic Topic. , 2021, , .		1
118	â€œLeft!â€•â€œ â€œRight!â€•â€œ â€œFollow!â€•, 2020, , .		1
119	KoFlâ€™The New Driving Experience: How to Cooperate with Automated Driving Vehicles. Human-computer Interaction Series, 2020, , 155-211.	0.6	1
120	Visuelle Wahrnehmung und ArbeitsgedÃchtnis als Grundlage fÃ¼r Situation Awareness beim Autofahren. , 2008, , 183-195.		0
121	German Validation of the Prosocial and Aggressive Driving Inventory (PADI). , 0, , .		0
122	Two Routes to Trust Calibration. , 2022, , 910-929.		0