

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	Advancing Knowledge on Situation Comprehension in Dynamic Traffic Situations by Studying Eye Movements to Empty Spatial Locations. <i>Human Factors</i> , 2023, 65, 1674-1688.	3.5	2
2	Motivated to Use: Beliefs and Motivation Influencing the Acceptance and Use of Assistance and Navigation Systems. <i>International Journal of Human-Computer Interaction</i> , 2023, 39, 2926-2941.	4.8	5
3	Two Routes to Trust Calibration. , 2022, , 910-929.		0
4	“Do I really need it?” An explorative study of acceptance and usage of in-vehicle technology. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2022, 84, 65-82.	3.7	12
5	Automation, Situation Awareness and Mental Workload. <i>Studies in Computational Intelligence</i> , 2022, , 3-27.	0.9	2
6	Supporting cooperative driving behaviour by technology “ HMI solution, acceptance by drivers and effects on workload and driving behaviour. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2022, 84, 139-154.	3.7	4
7	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
8	A subjective one-item measure based on NASA-TLX to assess cognitive workload in driver-vehicle interaction. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2022, 86, 210-225.	3.7	10
9	Implicit intention communication as a design opportunity for automated vehicles: Understanding drivers’ interpretation of vehicle trajectory at narrow passages. <i>Accident Analysis and Prevention</i> , 2022, 173, 106691.	5.7	15
10	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
11	What’s Driving Me? Exploration and Validation of a Hierarchical Personality Model for Trust in Automated Driving. <i>Human Factors</i> , 2021, 63, 1076-1105.	3.5	30
12	Sleep inertia in automated driving: Post-sleep take-over and driving performance. <i>Accident Analysis and Prevention</i> , 2021, 150, 105918.	5.7	14
13	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
14	When does the driver feel ready to drive again after automated driving? “ A qualitative approach. <i>IT - Information Technology</i> , 2021, 63, 87-97.	0.9	1
15	Solving Cooperative Situations: Strategic Driving Decisions Depending on Perceptions and Expectations About Other Drivers. <i>Lecture Notes in Networks and Systems</i> , 2021, , 742-750.	0.7	5
16	Small Talk with a Robot? The Impact of Dialog Content, Talk Initiative, and Gaze Behavior of a Social Robot on Trust, Acceptance, and Proximity. <i>International Journal of Social Robotics</i> , 2021, 13, 1485-1498.	4.6	37
17	Personality Influences on Drivers’ Decision to Take Back Manual Control: A Simulator Study on Automated Driving. <i>Lecture Notes in Networks and Systems</i> , 2021, , 726-733.	0.7	1
18	Self-Driving Vehicles and Pedestrian Interaction: Does an External Human-Machine Interface Mitigate the Threat of a Tinted Windshield or a Distracted Driver?. <i>International Journal of Human-Computer Interaction</i> , 2021, 37, 1364-1374.	4.8	25

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19	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
20	Vulnerable road users and the coming wave of automated vehicles: Expert perspectives. Transportation Research Interdisciplinary Perspectives, 2021, 9, 100293.	2.7	69
21	Investigating the Validity of Online Robot Evaluations: Comparison of Findings from an One-Sample Online and Laboratory Study. , 2021, , .		11
22	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
23	Calibrating Pedestrians' Trust in Automated Vehicles. , 2021, , .		22
24	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
25	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
26	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
27	Navigating with Augmented Reality â€œ How does it affect driversâ€™ mental load?. Applied Ergonomics, 2021, 94, 103398.	3.1	14
28	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
29	Workshop on Human-Vehicle-Environment Cooperation in Automated driving: The Next Stage of a Classic Topic. , 2021, , .		1
30	Genie vs. Jarvis: Characteristics and Design Considerations of In-Vehicle Intelligent Agents. , 2021, , .		3
31	From SAE-Levels to Cooperative Task Distribution:An Efficient and Usable Way to Deal with System Limitations?. , 2021, , .		6
32	â€œTo Go or Not To Go? That is the Questionâ€ When In-Vehicle Agents Argue with Each Other. , 2021, , .		4
33	Prompting in-depth learning in immersive virtual reality: Impact of an elaboration prompt on developing a mental model. Computers and Education, 2021, 171, 104235.	8.3	18
34	Differential effects of driver sleepiness and sleep inertia on driving behavior. Transportation Research Part F: Traffic Psychology and Behaviour, 2021, 82, 111-120.	3.7	17
35	Cooperative Speed Regulation in Automated Vehicles: A Comparison Between a Touch, Pedal, and Button Interface as the Input Modality. , 2021, , .		4
36	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

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37	From anticipation to behavioral intention: Insights into human processing of multiple retrieval cues in road traffic. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2021, 83, 252-265.	3.7	2
38	The More You Know: Trust Dynamics and Calibration in Highly Automated Driving and the Effects of Take-Overs, System Malfunction, and System Transparency. <i>Human Factors</i> , 2020, 62, 718-736.	3.5	106
39	Yielding Light Signal Evaluation for Self-driving Vehicle and Pedestrian Interaction. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 189-194.	0.6	10
40	Get Ready for Being Chauffeured. <i>Human Factors</i> , 2020, 62, 1322-1338.	3.5	32
41	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
42	Comparing dynamic and static illustration of an HMI for cooperative driving. <i>Accident Analysis and Prevention</i> , 2020, 144, 105682.	5.7	16
43	Reducing uncertainty by anticipation in traffic – The effect of situational characteristics and criticality on behavioral, subjective, and psychophysiological parameters. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2020, 75, 173-186.	3.7	4
44	Efficient Paradigm to Measure Street-Crossing Onset Time of Pedestrians in Video-Based Interactions with Vehicles. <i>Information (Switzerland)</i> , 2020, 11, 360.	2.9	11
45	Effects of explaining system failures during maneuver coordination while driving manual or automated. <i>Accident Analysis and Prevention</i> , 2020, 148, 105839.	5.7	9
46	Tracing current explanations in memory: A process analysis based on eye-tracking. <i>Quarterly Journal of Experimental Psychology</i> , 2020, 73, 1703-1717.	1.1	2
47	Sleep in highly automated driving: Takeover performance after waking up. <i>Accident Analysis and Prevention</i> , 2020, 144, 105617.	5.7	27
48	External HMI for self-driving vehicles: Which information shall be displayed?. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2020, 68, 171-186.	3.7	97
49	Situational influencing factors on understanding cooperative actions in automated driving. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2020, 70, 223-234.	3.7	23
50	Development and Testing of Psychological Conflict Resolution Strategies for Assertive Robots to Resolve Human-Robot Goal Conflict. <i>Frontiers in Robotics and AI</i> , 2020, 7, 591448.	3.2	15
51	Look ahead: understanding cognitive anticipatory processes based on situational characteristics in dynamic traffic situations. <i>IET Intelligent Transport Systems</i> , 2020, 14, 233-240.	3.0	9
52	A Longitudinal Video Study on Communicating Status and Intent for Self-Driving Vehicle – Pedestrian Interaction. , 2020, , .		39
53	Effect of Visualization of Pedestrian Intention Recognition on Trust and Cognitive Load. , 2020, , .		27
54	Designing Communication Strategies of Autonomous Vehicles with Pedestrians: An Intercultural Study. , 2020, , .		19

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55	“Left-Right” Follow, 2020, , .		1
56	Come Closer: Experimental Investigation of Robots™ 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
57	After you: Merging at Highway On-Ramps. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 1105-1109.	0.3	5
58	Does crossing the road in a group influence pedestrians™ gaze behavior?. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 1938-1942.	0.3	6
59	KoFl™ The New Driving Experience: How to Cooperate with Automated Driving Vehicles. Human-computer Interaction Series, 2020, , 155-211.	0.6	1
60	Towards a Cooperative Driver-Vehicle Interface: Enhancing Drivers' Perception of Cyclists through Augmented Reality. , 2020, , .		6
61	Cognitive psychological approach for unraveling the take-over process during automated driving. , 2019, , .		1
62	Online experiments as a supplement of automated driving simulator studies. , 2019, , .		4
63	Real autonomous driving from a passenger™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
64	Three Years CoInCar: What Cooperatively Interacting Cars Might Learn from Human Drivers. IFAC-PapersOnLine, 2019, 52, 105-110.	0.9	2
65	Spatial visualization of sensor information for automated vehicles. , 2019, , .		2
66	The effect of incentives in driving simulator studies. , 2019, , .		1
67	Stuck behind a truck. , 2019, , .		4
68	Two Routes to Trust Calibration. International Journal of Mobile Human Computer Interaction, 2019, 11, 1-17.	0.4	21
69	How to support cooperative driving by HMI design?. Transportation Research Interdisciplinary Perspectives, 2019, 3, 100064.	2.7	9
70	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
71	Investigating Initial Driver Intention on Overtaking on Rural Roads. , 2019, , .		3
72	Cooperative Overtaking. , 2019, , .		42

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73	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
74	Scared to Trust? â€ Predicting Trust in Highly Automated Driving by Depressiveness, Negative Self-Evaluations and State Anxiety. <i>Frontiers in Psychology</i> , 2019, 10, 2917.	2.1	29
75	Towards Opt-Out Permission Policies to Maximize the Use of Automated Driving. , 2019, , .		4
76	Designing Augmented Reality Navigation Visualizations for the Vehicle: A Question of Real World Object Coverage?. <i>Lecture Notes in Computer Science</i> , 2019, , 161-175.	1.3	2
77	Carrot and stick: A game-theoretic approach to motivate cooperative driving through social interaction. <i>Transportation Research Part C: Emerging Technologies</i> , 2018, 88, 159-175.	7.6	50
78	Design Guidelines for Reliability Communication in Autonomous Vehicles. , 2018, , .		16
79	Calibration of Trust Expectancies in Conditionally Automated Driving by Brand, Reliability Information and Introductory Videos. , 2018, , .		23
80	Social interactions in traffic: The effect of external factors. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2018, 62, 97-101.	0.3	5
81	How to Design Valid Simulator Studies for Investigating User Experience in Automated Driving. , 2018, , .		32
82	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
83	A measurement to driving situation awareness in signalized intersections. <i>Transportation Research, Part D: Transport and Environment</i> , 2018, 62, 739-747.	6.8	6
84	Click or Hold. , 2018, , .		13
85	From Car-Driver-Handovers to Cooperative Interfaces: Visions for Driverâ€™Vehicle Interaction in Automated Driving. <i>Human-computer Interaction Series</i> , 2017, , 273-294.	0.6	52
86	Workshop on Human Machine Interaction in Autonomous Vehicles. , 2017, , .		2
87	Building driver's trust in lane change assistance systems by adapting to driver's uncertainty states. , 2017, , .		3
88	1st Workshop on Understanding Automation. , 2017, , .		5
89	Touch Screen Maneuver Approval Mechanisms for Highly Automated Vehicles. , 2017, , .		12
90	Developing a Highly Automated Driving Scenario to Investigate User Intervention. , 2017, , .		1

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91	Help me make a dinner! Challenges when assisting humans in action planning. , 2017, , .		5
92	Autonomous Driving. International Journal of Mobile Human Computer Interaction, 2017, 9, 58-74.	0.4	9
93	1st Workshop on Situational Awareness in Semi-Automated Vehicles. , 2016, , .		5
94	Towards Cooperative Driving. , 2016, , .		64
95	Human After All. , 2016, , .		29
96	Elaborating Feedback Strategies for Maintaining Automation in Highly Automated Driving. , 2016, , .		40
97	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
98	Developing a model of driver's uncertainty in lane change situations for trustworthy lane change decision aid systems. , 2016, , .		7
99	Development of a Lane Change Assistance System Adapting to Driver's Uncertainty During Decision-Making. , 2016, , .		6
100	Anthropomorphic agents, transparent automation and driver personality. , 2015, , .		19
101	Autonomous driving. , 2015, , .		140
102	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
103	Driver behavior following an automatic steering intervention. Accident Analysis and Prevention, 2015, 83, 190-196.	5.7	12
104	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
105	Dynamic simulation and prediction of drivers'™ attention distribution. Transportation Research Part F: Traffic Psychology and Behaviour, 2013, 21, 278-294.	3.7	29
106	A comparison of selected simple supervised learning algorithms to predict driver intent based on gaze data. Neurocomputing, 2013, 121, 108-130.	5.9	101
107	A Neural Network Model for Driver's™ Lane-Changing Trajectory Prediction in Urban Traffic Flow. Mathematical Problems in Engineering, 2013, 2013, 1-8.	1.1	41
108	Validation of the MoSAIC-Driving Simulator " 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

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109	A Modular and Scalable Application Platform for Testing and Evaluating Its Components. , 2011, , .		5
110	Using Pattern Recognition to Predict Driver Intent. Lecture Notes in Computer Science, 2011, , 140-149.	1.3	16
111	Effects of Situational Characteristics on Drivers' Merging into Freeway Traffic. , 2011, , 343-351.		4
112	The Influence of Predictability and Frequency of Events on the Gaze Behaviour While Driving. , 2011, , 283-290.		2
113	Learning from examples does not prevent order effects in belief revision. Thinking and Reasoning, 2010, 16, 98-130.	3.2	3
114	A Comprehension Based Cognitive Model of Situation Awareness. Lecture Notes in Computer Science, 2009, , 192-201.	1.3	13
115	Driving and Situation Awareness: A Cognitive Model of Memory-Update Processes. Lecture Notes in Computer Science, 2009, , 986-994.	1.3	17
116	Visuelle Wahrnehmung und Arbeitsgedächtnis als Grundlage für Situation Awareness beim Autofahren. , 2008, , 183-195.		0
117	Situation Awareness and Driving: A Cognitive Model. , 2007, , 253-265.		27
118	Situation Awareness and Secondary Task Performance While Driving. Lecture Notes in Computer Science, 2007, , 256-263.	1.3	9
119	Evaluation of in-vehicle HMI using occlusion techniques: experimental results and practical implications. Applied Ergonomics, 2004, 35, 197-205.	3.1	55
120	A Methodical Approach to Examine Conflicts in Context of Driver - Autonomous Vehicle - Interaction. , 0, , .		4
121	Driving with Foresight - Evaluating the Effect of Cognitive Distraction and Experience on Anticipating Events in Traffic. , 0, , .		2
122	German Validation of the Prosocial and Aggressive Driving Inventory (PADI). , 0, , .		0