Gustav M Markkula

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Variable-Drift Diffusion Models of Pedestrian Road-Crossing Decisions. Computational Brain & Behavior, 2022, 5, 60-80.	1.7	22
2	Steering is initiated based on error accumulation Journal of Experimental Psychology: Human Perception and Performance, 2022, 48, 64-76.	0.9	0
3	Learning to interpret novel eHMI: The effect of vehicle kinematics and eHMI familiarity on pedestrian' crossing behavior. Journal of Safety Research, 2022, 80, 270-280.	3.6	38
4	Explaining unsafe pedestrian road crossing behaviours using a Psychophysics-based gap acceptance model. Safety Science, 2022, 154, 105837.	4.9	19
5	Pedestrian Models for Autonomous Driving Part II: High-Level Models of Human Behavior. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 5453-5472.	8.0	62
6	Steering or braking avoidance response in SHRP2 rear-end crashes and near-crashes: A decision tree approach. Accident Analysis and Prevention, 2021, 154, 106055.	5.7	10
7	Accumulation of continuously time-varying sensory evidence constrains neural and behavioral responses in human collision threat detection. PLoS Computational Biology, 2021, 17, e1009096.	3.2	12
8	Drivers use active gaze to monitor waypoints during automated driving. Scientific Reports, 2021, 11, 263.	3.3	9
9	Comparing merging behaviors observed in naturalistic data with behaviors generated by a machine learned model. , 2021, , .		6
10	Computational modeling of driver pre-crash brake response, with and without off-road glances: Parameterization using real-world crashes and near-crashes. Accident Analysis and Prevention, 2021, 163, 106433.	5.7	14
11	How Do Drivers Respond to Silent Automation Failures? Driving Simulator Study and Comparison of Computational Driver Braking Models. Human Factors, 2020, 62, 1212-1229.	3.5	20
12	Evaluation of Vehicle Ride Height Adjustments Using a Driving Simulator. Vehicles, 2020, 2, 491-506.	3.1	0
13	Defining interactions: a conceptual framework for understanding interactive behaviour in human and automated road traffic. Theoretical Issues in Ergonomics Science, 2020, 21, 728-752.	1.8	95
14	Predicting takeover response to silent automated vehicle failures. PLoS ONE, 2020, 15, e0242825.	2.5	8
15	Creating Kinematics-dependent Pedestrian Crossing Willingness Model When Interacting with Approaching Vehicle. , 2020, , .		1
16	Modelling visual-vestibular integration and behavioural adaptation in the driving simulator. Transportation Research Part F: Traffic Psychology and Behaviour, 2019, 66, 310-323.	3.7	9
17	Understanding the Messages Conveyed by Automated Vehicles. , 2019, , .		34
18	How Do We Study Pedestrian Interaction with Automated Vehicles? Preliminary Findings from the European interACT Project. Lecture Notes in Mobility, 2019, , 21-33.	0.2	4

GUSTAV M MARKKULA

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19	Toward Computational Simulations of Behavior During Automated Driving Takeovers: A Review of the Empirical and Modeling Literatures. Human Factors, 2019, 61, 642-688.	3.5	142
20	Getting Back Into the Loop: The Perceptual-Motor Determinants of Successful Transitions out of Automated Driving. Human Factors, 2019, 61, 1037-1065.	3.5	38
21	Sustained sensorimotor control as intermittent decisions about prediction errors: computational framework and application to ground vehicle steering. Biological Cybernetics, 2018, 112, 181-207.	1.3	45
22	Great expectations: a predictive processing account of automobile driving. Theoretical Issues in Ergonomics Science, 2018, 19, 156-194.	1.8	41
23	Models of Human Decision-Making as Tools for Estimating and Optimizing Impacts of Vehicle Automation. Transportation Research Record, 2018, 2672, 153-163.	1.9	32
24	Evidence Accumulation Account of Human Operators' Decisions in Intermittent Control During Inverted Pendulum Balancing. , 2018, , .		3
25	Simulating the effect of cognitive load on braking responses in lead vehicle braking scenarios. IET Intelligent Transport Systems, 2018, 12, 427-433.	3.0	9
26	Using Driver Control Models to Understand and Evaluate Behavioral Validity of Driving Simulators. IEEE Transactions on Human-Machine Systems, 2018, 48, 592-603.	3.5	12
27	Using perceptual cues for brake response to a lead vehicle: Comparing threshold and accumulator models of visual looming. Accident Analysis and Prevention, 2018, 118, 114-124.	5.7	41
28	Effects of Cognitive Load on Driving Performance: The Cognitive Control Hypothesis. Human Factors, 2017, 59, 734-764.	3.5	145
29	A quantitative driver model of pre-crash brake onset and control. Proceedings of the Human Factors and Ergonomics Society, 2017, 61, 339-343.	0.3	14
30	Coming back into the loop: Drivers' perceptual-motor performance in critical events after automated driving. Accident Analysis and Prevention, 2017, 108, 9-18.	5.7	84
31	Cognitive Driver Distraction Improves Straight Lane Keeping: A Cybernetic Control Theoretic Explanation. IFAC-PapersOnLine, 2016, 49, 627-632.	0.9	4
32	A farewell to brake reaction times? Kinematics-dependent brake response in naturalistic rear-end emergencies. Accident Analysis and Prevention, 2016, 95, 209-226.	5.7	107
33	Answering questions about consciousness by modeling perception as covert behavior. Frontiers in Psychology, 2015, 6, 803.	2.1	5
34	Improving yaw stability control in severe instabilities by means of a validated model of driver steering. , 2015, , .		0
35	Comparing and validating models of driver steering behaviour in collision avoidance and vehicle stabilisation. Vehicle System Dynamics, 2014, 52, 1658-1680.	3.7	32
36	Driver behaviour in unexpected critical events and in repeated exposures – a comparison. European Transport Research Review, 2014, 6, 51-60.	4.8	17

GUSTAV M MARKKULA

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37	Modeling driver control behavior in both routine and near-accident driving. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 879-883.	0.3	35
38	Evidence for a fundamental property of steering. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 884-888.	0.3	20
39	Effects of experience and electronic stability control on low friction collision avoidance in a truck driving simulator. Accident Analysis and Prevention, 2013, 50, 1266-1277.	5.7	14
40	A Review of Near-Collision Driver Behavior Models. Human Factors, 2012, 54, 1117-1143.	3.5	77
41	A Simulation Environment for Analysis and Optimization of Driver Models. Lecture Notes in Computer Science, 2011, , 453-462.	1.3	3
42	Towards an Integrated Adaptive Automotive HMI for the Future. Lecture Notes in Computer Science, 2011, , 253-262.	1.3	0
43	Towards the Automotive HMI of the Future: Overview of the AIDE-Integrated Project Results. IEEE Transactions on Intelligent Transportation Systems, 2010, 11, 567-578.	8.0	52
44	Driver Distraction Detection with a Camera Vision System. , 2007, , .		73