

David Cole

List of Publications by Citations

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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.

41
papers

1,150
citations

21
h-index

33
g-index

50
ext. papers

1,337
ext. citations

2.2
avg. IF

5
L-index

#	Paper	IF	Citations
41	Predictive and linear quadratic methods for potential application to modelling driver steering control. <i>Vehicle System Dynamics</i> , 2006 , 44, 259-284	2.8	133
40	Game-Theoretic Modeling of the Steering Interaction Between a Human Driver and a Vehicle Collision Avoidance Controller. <i>IEEE Transactions on Human-Machine Systems</i> , 2015 , 45, 25-38	4.1	102
39	A Mathematical Model of Driver Steering Control Including Neuromuscular Dynamics. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2008 , 130,	1.6	75
38	Linear quadratic game and non-cooperative predictive methods for potential application to modelling driver-AFS interactive steering control. <i>Vehicle System Dynamics</i> , 2013 , 51, 165-198	2.8	61
37	Neuromuscular dynamics in the driver-vehicle system. <i>Vehicle System Dynamics</i> , 2006 , 44, 624-631	2.8	44
36	Minimum Maneuver Time Calculation Using Convex Optimization. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2013 , 135,	1.6	41
35	Dynamic properties of a driver's arms holding a steering wheel. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2007 , 221, 1475-1486	1.4	41
34	Application of time-variant predictive control to modelling driver steering skill. <i>Vehicle System Dynamics</i> , 2011 , 49, 527-559	2.8	40
33	Measurement of Driver Steering Torque Using Electromyography. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2006 , 128, 960-968	1.6	40
32	A review of human sensory dynamics for application to models of driver steering and speed control. <i>Biological Cybernetics</i> , 2016 , 110, 91-116	2.8	33
31	A path-following driver-vehicle model with neuromuscular dynamics, including measured and simulated responses to a step in steering angle overlay. <i>Vehicle System Dynamics</i> , 2012 , 50, 573-596	2.8	32
30	Application of Open-Loop Stackelberg Equilibrium to Modeling a Driver's Interaction with Vehicle Active Steering Control in Obstacle Avoidance. <i>IEEE Transactions on Human-Machine Systems</i> , 2017 , 47, 673-685	4.1	30
29	Bias-free identification of a linear model-predictive steering controller from measured driver steering behavior. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2012 , 42, 434-43		30
28	Driver steering and muscle activity during a lane-change manoeuvre. <i>Vehicle System Dynamics</i> , 2007 , 45, 781-805	2.8	29
27	Spatial Repeatability of Dynamic Tyre Forces Generated by Heavy Vehicles. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 1992 , 206, 17-27	1.4	26
26	Application of linear preview control to modelling human steering control. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2009 , 223, 835-853	1.4	24
25	A model of driver steering control incorporating the driver's sensing of steering torque. <i>Vehicle System Dynamics</i> , 2011 , 49, 1575-1596	2.8	23

24	Modelling nonlinear vehicle dynamics with neural networks. <i>International Journal of Vehicle Design</i> , 2010 , 53, 260	2.4	22
23	A neuromuscular model featuring co-activation for use in driver simulation. <i>Vehicle System Dynamics</i> , 2008 , 46, 175-189	2.8	22
22	Vehicle trajectory linearisation to enable efficient optimisation of the constant speed racing line. <i>Vehicle System Dynamics</i> , 2012 , 50, 883-901	2.8	19
21	Measurement and mathematical model of a driver's intermittent compensatory steering control. <i>Vehicle System Dynamics</i> , 2015 , 53, 1811-1829	2.8	18
20	Modelling of a human driver's interaction with vehicle automated steering using cooperative game theory. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2019 , 6, 1095-1107	7	16
19	Modelling high frequency force behaviour of hydraulic automotive dampers. <i>Vehicle System Dynamics</i> , 2006 , 44, 1-31	2.8	13
18	Assessing the Road-Damaging Potential of Heavy Vehicles. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 1991 , 205, 223-232	1.4	13
17	Robust lap-time simulation. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2014 , 228, 1200-1216	1.4	12
16	Modelling the influence of sensory dynamics on linear and nonlinear driver steering control. <i>Vehicle System Dynamics</i> , 2018 , 56, 689-718	2.8	10
15	Advanced emergency braking under split friction conditions and the influence of a destabilising steering wheel torque. <i>Vehicle System Dynamics</i> , 2017 , 55, 970-994	2.8	9
14	Identification of the steering control behaviour of five test subjects following a randomly curving path in a driving simulator. <i>International Journal of Vehicle Autonomous Systems</i> , 2014 , 12, 44	0.4	9
13	Occupant-vehicle dynamics and the role of the internal model. <i>Vehicle System Dynamics</i> , 2018 , 56, 661-688	2.8	9
12	Efficient minimum manoeuvre time optimisation of an oversteering vehicle at constant forward speed 2011 ,		6
11	Effects of Spatial Repeatability On Long-Term Flexible Pavement Performance. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 1996 , 210, 97-110	1.3	6
10	Wavelet analysis of high-frequency damper behaviour. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2005 , 219, 977-988	1.4	6
9	Identification and validation of a driver steering control model incorporating human sensory dynamics. <i>Vehicle System Dynamics</i> , 2020 , 58, 495-517	2.8	6
8	Neuromuscular-Steering Dynamics: Motorcycle Riders vs. Car Drivers 2012 ,		5
7	MPC-Based Haptic Shared Steering System: A Driver Modeling Approach for Symbiotic Driving. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 26, 1201-1211	5.5	4

6	Measurement and Modeling of the Effect of Sensory Conflicts on Driver Steering Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2019 , 141,	1.6	3
5	Steering feedback. <i>ATZ Autotechnology</i> , 2008 , 8, 52-56		3
4	Quantification of Road Vehicle Handling Quality Using a Compensatory Steering Controller. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2017 , 139,	1.6	2
3	Two Nash-equilibrium-based steering control models for representing a driver's interaction with vehicle automated steering. <i>Vehicle System Dynamics</i> , 1-35	2.8	1
2	The Role of Human Sensory Dynamics in Car Driving. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 1259-1263	1.6	3
1	Identification of a driver model incorporating sensory dynamics, with nonlinear vehicle dynamics and transient disturbances. <i>Vehicle System Dynamics</i> , 1-20	2.8	