David Cole

List of Publications by Year
in descending order

43 papers	1,593 citations	279487 23 h-index	315357 38 g-index
50 all docs	50 docs citations	50 times ranked	765 citing authors

#	Article	IF	Citations
1	Experimental Evaluation of a Game-Theoretic Human Driver Steering Control Model. IEEE Transactions on Cybernetics, 2023, 53, 4791-4804.	6.2	6
2	Two Nash-equilibrium-based steering control models for representing a driverâ€™s interaction with vehicle automated steering. Vehicle System Dynamics, 2022, 60, 2255-2289.	2.2	6
3	Identification of a driver model incorporating sensory dynamics, with nonlinear vehicle dynamics and transient disturbances. Vehicle System Dynamics, 2022, 60, 2805-2824.	2.2	2
4	A Simulation Study of Human Sensory Dynamics and Driverâ€“Vehicle Response. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2022, 144, .	0.9	0
5	MPC-Based Haptic Shared Steering System: A Driver Modeling Approach for Symbiotic Driving. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1201-1211.	3.7	33
6	Identification and validation of a driver steering control model incorporating human sensory dynamics. Vehicle System Dynamics, 2020, 58, 495-517.	2.2	11
7	The Role of Human Sensory Dynamics in Car Driving. Lecture Notes in Mechanical Engineering, 2020, , 1259-1263.	0.3	0
8	Measurement and Modeling of the Effect of Sensory Conflicts on Driver Steering Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	0.9	5
9	Modelling of a human driver s interaction with vehicle automated steering using cooperative game theory. IEEE/CAA Journal of Automatica Sinica, 2019, 6, 1095-1107.	8.5	33
10	Modelling the influence of sensory dynamics on linear and nonlinear driver steering control. Vehicle System Dynamics, 2018, 56, 689-718.	2.2	13
11	Occupantâ€“vehicle dynamics and the role of the internal model. Vehicle System Dynamics, 2018, 56, 661-688.	2.2	10
12	Quantification of Road Vehicle Handling Quality Using a Compensatory Steering Controller. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	0.9	2
13	Advanced emergency braking under split friction conditions and the influence of a destabilising steering wheel torque. Vehicle System Dynamics, 2017, 55, 970-994.	2.2	11
14	Application of Open-Loop Stackelberg Equilibrium to Modeling a Driver's Interaction with Vehicle Active Steering Control in Obstacle Avoidance. IEEE Transactions on Human-Machine Systems, 2017, 47, 673-685.	2.5	45
15	A review of human sensory dynamics for application to models of driver steering and speed control. Biological Cybernetics, 2016, 110, 91-116.	0.6	53
16	Game-Theoretic Modeling of the Steering Interaction Between a Human Driver and a Vehicle Collision Avoidance Controller. IEEE Transactions on Human-Machine Systems, 2015, 45, 25-38.	2.5	150
17	Measurement and mathematical model of a driver's intermittent compensatory steering control. Vehicle System Dynamics, 2015, 53, 1811-1829.	2.2	20
18	Robust lap-time simulation. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2014, 228, 1200-1216.	1.1	13

#	Article	IF	Citations
19	Identification of the steering control behaviour of five test subjects following a randomly curving path in a driving simulator. International Journal of Vehicle Autonomous Systems, 2014, 12, 44.	0.2	12
20	Linear quadratic game and non-cooperative predictive methods for potential application to modelling driverâ€“AFS interactive steering control. Vehicle System Dynamics, 2013, 51, 165-198.	2.2	90
21	Minimum Maneuver Time Calculation Using Convex Optimization. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, .	0.9	43
22	Neuromuscular-Steering Dynamics: Motorcycle Riders vs. Car Drivers. , 2012, , .		5
23	Vehicle trajectory linearisation to enable efficient optimisation of the constant speed racing line. Vehicle System Dynamics, 2012, 50, 883-901.	2.2	22
24	A path-following driverâ€“vehicle model with neuromuscular dynamics, including measured and simulated responses to a step in steering angle overlay. Vehicle System Dynamics, 2012, 50, 573-596.	2.2	45
25	Bias-Free Identification of a Linear Model-Predictive Steering Controller From Measured Driver Steering Behavior. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 434-443.	5.5	38
26	Application of time-variant predictive control to modelling driver steering skill. Vehicle System Dynamics, 2011, 49, 527-559.	2.2	47
27	Efficient minimum manoeuvre time optimisation of an oversteering vehicle at constant forward speed. , 2011, , .		7
28	A model of driver steering control incorporating the driver's sensing of steering torque. Vehicle System Dynamics, 2011, 49, 1575-1596.	2.2	27
29	Modelling nonlinear vehicle dynamics with neural networks. International Journal of Vehicle Design, 2010, 53, 260.	0.1	27
30	Application of linear preview control to modelling human steering control. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2009, 223, 835-853.	1.1	30
31	Steering feedback. ATZ Autotechnology, 2008, 8, 52-56.	0.1	5
32	A neuromuscular model featuring co-activation for use in driver simulation. Vehicle System Dynamics, 2008, 46, 175-189.	2.2	29
33	A Mathematical Model of Driver Steering Control Including Neuromuscular Dynamics. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2008, 130, .	0.9	99
34	Driver steering and muscle activity during a lane-change manoeuvre. Vehicle System Dynamics, 2007, 45, 781-805.	2.2	36
35	Dynamic properties of a driver's arms holding a steering wheel. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2007, 221, 1475-1486.	1.1	62
36	Predictive and linear quadratic methods for potential application to modelling driver steering control. Vehicle System Dynamics, 2006, 44, 259-284.	2.2	158

#	Article	IF	Citations
37	Measurement of Driver Steering Torque Using Electromyography. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2006, 128, 960-968.	0.9	57
38	Neuromuscular dynamics in the driverâ€“vehicle system. Vehicle System Dynamics, 2006, 44, 624-631.	2.2	54
39	Modelling high frequency force behaviour of hydraulic automotive dampers. Vehicle System Dynamics, 2006, 44, 1-31.	2.2	18
40	Wavelet analysis of high-frequency damper behaviour. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2005, 219, 977-988.	1.1	6
41	Effects of Spatial Repeatability On Long-Term Flexible Pavement Performance. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 1996, 210, 97-110.	1.1	6
42	Spatial Repeatability of Dynamic Tyre Forces Generated by Heavy Vehicles. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 1992, 206, 17-27.	1.1	38
43	Assessing the Road-Damaging Potential of Heavy Vehicles. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 1991, 205, 223-232.	1.1	19