

# David Cole

## List of Publications by Year in descending order

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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	Predictive and linear quadratic methods for potential application to modelling driver steering control. <i>Vehicle System Dynamics</i> , 2006, 44, 259-284.	2.2	158
2	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.	2.5	150
3	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, .	0.9	99
4	Linear quadratic game and non-cooperative predictive methods for potential application to modelling driver's AFS interactive steering control. <i>Vehicle System Dynamics</i> , 2013, 51, 165-198.	2.2	90
5	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.	1.1	62
6	Measurement of Driver Steering Torque Using Electromyography. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2006, 128, 960-968.	0.9	57
7	Neuromuscular dynamics in the driver's vehicle system. <i>Vehicle System Dynamics</i> , 2006, 44, 624-631.	2.2	54
8	A review of human sensory dynamics for application to models of driver steering and speed control. <i>Biological Cybernetics</i> , 2016, 110, 91-116.	0.6	53
9	Application of time-variant predictive control to modelling driver steering skill. <i>Vehicle System Dynamics</i> , 2011, 49, 527-559.	2.2	47
10	A path-following driver's 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.	2.2	45
11	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.	2.5	45
12	Minimum Maneuver Time Calculation Using Convex Optimization. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2013, 135, .	0.9	43
13	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.	1.1	38
14	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, 434-443.	5.5	38
15	Driver steering and muscle activity during a lane-change manoeuvre. <i>Vehicle System Dynamics</i> , 2007, 45, 781-805.	2.2	36
16	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.	8.5	33
17	MPC-Based Haptic Shared Steering System: A Driver Modeling Approach for Symbiotic Driving. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021, 26, 1201-1211.	3.7	33
18	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.	1.1	30

#	ARTICLE	IF	CITATIONS
19	A neuromuscular model featuring co-activation for use in driver simulation. <i>Vehicle System Dynamics</i> , 2008, 46, 175-189.	2.2	29
20	Modelling nonlinear vehicle dynamics with neural networks. <i>International Journal of Vehicle Design</i> , 2010, 53, 260.	0.1	27
21	A model of driver steering control incorporating the driver's sensing of steering torque. <i>Vehicle System Dynamics</i> , 2011, 49, 1575-1596.	2.2	27
22	Vehicle trajectory linearisation to enable efficient optimisation of the constant speed racing line. <i>Vehicle System Dynamics</i> , 2012, 50, 883-901.	2.2	22
23	Measurement and mathematical model of a driver's intermittent compensatory steering control. <i>Vehicle System Dynamics</i> , 2015, 53, 1811-1829.	2.2	20
24	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.	1.1	19
25	Modelling high frequency force behaviour of hydraulic automotive dampers. <i>Vehicle System Dynamics</i> , 2006, 44, 1-31.	2.2	18
26	Robust lap-time simulation. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2014, 228, 1200-1216.	1.1	13
27	Modelling the influence of sensory dynamics on linear and nonlinear driver steering control. <i>Vehicle System Dynamics</i> , 2018, 56, 689-718.	2.2	13
28	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.	0.2	12
29	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.	2.2	11
30	Identification and validation of a driver steering control model incorporating human sensory dynamics. <i>Vehicle System Dynamics</i> , 2020, 58, 495-517.	2.2	11
31	Occupant's vehicle dynamics and the role of the internal model. <i>Vehicle System Dynamics</i> , 2018, 56, 661-688.	2.2	10
32	Efficient minimum manoeuvre time optimisation of an oversteering vehicle at constant forward speed. , 2011, , .		7
33	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.	1.1	6
34	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.	1.1	6
35	Two Nash-equilibrium-based steering control models for representing a driver's interaction with vehicle automated steering. <i>Vehicle System Dynamics</i> , 2022, 60, 2255-2289.	2.2	6
36	Experimental Evaluation of a Game-Theoretic Human Driver Steering Control Model. <i>IEEE Transactions on Cybernetics</i> , 2023, 53, 4791-4804.	6.2	6

#	ARTICLE	IF	CITATIONS
37	Steering feedback. ATZ Autotechnology, 2008, 8, 52-56.	0.1	5
38	Neuromuscular-Steering Dynamics: Motorcycle Riders vs. Car Drivers. , 2012, , .		5
39	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
40	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
41	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
42	The Role of Human Sensory Dynamics in Car Driving. Lecture Notes in Mechanical Engineering, 2020, , 1259-1263.	0.3	0
43	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