David Cole

List of Publications by Year in Descending Order

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	MPC-Based Haptic Shared Steering System: A Driver Modeling Approach for Symbiotic Driving. *IEEE/ASME Transactions on Mechatronics*, **2021**, 26, 1201-1211	5.5	4
40	The Role of Human Sensory Dynamics in Car Driving. *Lecture Notes in Mechanical Engineering*, **2020**, 1259-1263	0.4	
39	Identification and validation of a driver steering control model incorporating human sensory dynamics. *Vehicle System Dynamics*, **2020**, 58, 495-517	2.8	6
38	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,	1.6	3
37	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	7	16
36	Modelling the influence of sensory dynamics on linear and nonlinear driver steering control. *Vehicle System Dynamics*, **2018**, 56, 689-718	2.8	10
35	Occupant–vehicle dynamics and the role of the internal model. *Vehicle System Dynamics*, **2018**, 56, 661-682	2.8	9
34	Quantification of Road Vehicle Handling Quality Using a Compensatory Steering Controller. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2017**, 139,	1.6	2
33	Advanced emergency braking under split friction conditions and the influence of a destabilising steering wheel torque. *Vehicle System Dynamics*, **2017**, 55, 970-994	2.8	9
32	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	4.1	30
31	A review of human sensory dynamics for application to models of driver steering and speed control. *Biological Cybernetics*, **2016**, 110, 91-116	2.8	33
30	Measurement and mathematical model of a driver's intermittent compensatory steering control. *Vehicle System Dynamics*, **2015**, 53, 1811-1829	2.8	18
29	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	4.1	102
28	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	0.4	9
27	Robust lap-time simulation. *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, **2014**, 228, 1200-1216	1.4	12
26	Linear quadratic game and non-cooperative predictive methods for potential application to modelling driver–AFS interactive steering control. *Vehicle System Dynamics*, **2013**, 51, 165-198	2.8	61
25	Minimum Maneuver Time Calculation Using Convex Optimization. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2013**, 135,	1.6	41

24	Bias-free identification of a linear model-predictive steering controller from measured driver steering behavior. *IEEE Transactions on Systems, Man, and Cybernetics*, **2012**, 42, 434-43		30
23	Vehicle trajectory linearisation to enable efficient optimisation of the constant speed racing line. *Vehicle System Dynamics*, **2012**, 50, 883-901	2.8	19
22	A path-following driver–vehicle model with neuromuscular dynamics, including measured and simulated responses to a step in steering angle overlay. *Vehicle System Dynamics*, **2012**, 50, 573-596	2.8	32
21	Neuromuscular-Steering Dynamics: Motorcycle Riders vs. Car Drivers **2012**,		5
20	Application of time-variant predictive control to modelling driver steering skill. *Vehicle System Dynamics*, **2011**, 49, 527-559	2.8	40
19	Efficient minimum manoeuvre time optimisation of an oversteering vehicle at constant forward speed **2011**,		6
18	A model of driver steering control incorporating the driver's sensing of steering torque. *Vehicle System Dynamics*, **2011**, 49, 1575-1596	2.8	23
17	Modelling nonlinear vehicle dynamics with neural networks. *International Journal of Vehicle Design*, **2010**, 53, 260	2.4	22
16	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	1.4	24
15	Steering feedback. *ATZ Autotechnology*, **2008**, 8, 52-56		3
14	A neuromuscular model featuring co-activation for use in driver simulation. *Vehicle System Dynamics*, **2008**, 46, 175-189	2.8	22
13	A Mathematical Model of Driver Steering Control Including Neuromuscular Dynamics. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2008**, 130,	1.6	75
12	Driver steering and muscle activity during a lane-change manoeuvre. *Vehicle System Dynamics*, **2007** , 45, 781-805	2.8	29
11	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	1.4	41
10	Measurement of Driver Steering Torque Using Electromyography. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2006**, 128, 960-968	1.6	40
9	Neuromuscular dynamics in the driver–vehicle system. *Vehicle System Dynamics*, **2006**, 44, 624-631	2.8	44
8	Modelling high frequency force behaviour of hydraulic automotive dampers. *Vehicle System Dynamics*, **2006**, 44, 1-31	2.8	13
7	Predictive and linear quadratic methods for potential application to modelling driver steering control. *Vehicle System Dynamics*, **2006**, 44, 259-284	2.8	133

6	Wavelet analysis of high-frequency damper behaviour. *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, **2005**, 219, 977-988	1.4	6
5	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	1.3	6
4	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	1.4	26
3	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	1.4	13
2	Two Nash-equilibrium-based steering control models for representing a driver's interaction with vehicle automated steering. *Vehicle System Dynamics*,1-35	2.8	1
1	Identification of a driver model incorporating sensory dynamics, with nonlinear vehicle dynamics and transient disturbances. *Vehicle System Dynamics*,1-20	2.8	