David J N Limebeer

List of Publications by Year
in descending order

32	413	11	18
papers	citations	h-index	g-index

32	32	32	238
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optimal Control of a Formula One Car on a Three-Dimensional Track—Part 2: Optimal Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	1.6	46
2	Dynamics and Optimal Control of Road Vehicles. , 2018, , .		43
3	Relaminarisation of Reτ = 100 channel flow with globally stabilising linear feedback control. Physics of Fluids, 2011, 23, 125105.	4.0	34
4	Optimal tyre usage for a Formula One car. Vehicle System Dynamics, 2016, 54, 1448-1473.	3.7	29
5	Optimal Control of a Formula One Car on a Three-Dimensional Track—Part 1: Track Modeling and Identification. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	1.6	27
6	Aeroelastic control of long-span suspension bridges with controllable winglets. Structural Control and Health Monitoring, 2016, 23, 1417-1441.	4.0	23
7	Optimizing the Aero-Suspension Interactions in a Formula One Car. IEEE Transactions on Control Systems Technology, 2016, 24, 912-927.	5.2	23
8	Minimum-lap-time optimisation and simulation. Vehicle System Dynamics, 2021, 59, 1069-1113.	3.7	22
9	Region of attraction analysis for nonlinear vehicle lateral dynamics using sum-of-squares programming. Vehicle System Dynamics, 2018, 56, 1118-1138.	3.7	21
10	Optimal Motion Cueing for Race Cars. IEEE Transactions on Control Systems Technology, 2016, 24, 200-215.	5.2	17
11	Curved-ribbon-based track modelling for minimum lap-time optimisation. Meccanica, 2021, 56, 2139-2152.	2.0	14
12	Diesel engine optimisation, with emissions constraints, on a prescribed driving route. , 2017, , .		13
13	Optimal tyre management for a high-performance race car. Vehicle System Dynamics, 2022, 60, 1-19.	3.7	13
14	Experimental Aerodynamic Control of a Long-Span Suspension Bridge Section Using Leading- and Trailing-Edge Control Surfaces. IEEE Transactions on Control Systems Technology, 2016, 24, 1441-1453.	5.2	11
15	Fuel Minimization for a Vehicle Equipped With a Flywheel and Battery on a Three-Dimensional Track. IEEE Transactions on Intelligent Vehicles, 2017, 2, 161-174.	12.7	11
16	Optimal control of a road racing motorcycle on a three-dimensional closed track. Vehicle System Dynamics, 2020, 58, 1285-1309.	3.7	9
17	A Framework for Discrete-Time H2 Preview Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2010, 132, .	1.6	8
18	Burst Oscillations in the Accelerating Bicycle. Journal of Applied Mechanics, Transactions ASME, 2010, 77, .	2.2	8

#	Article	IF	Citations
19	Suppression of Burst Oscillations in Racing Motorcycles. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	2.2	7
20	Variational Integrators for Dissipative Systems. IEEE Transactions on Automatic Control, 2020, 65, 1381-1396.	5.7	7
21	Suppression of burst oscillations in racing motorcycles. , 2010, , .		5
22	Non-linear vehicle domain of attraction analysis using Sum-of-Squares programming. , 2016, , .		4
23	Motion cueing in high-performance vehicle simulators. Vehicle System Dynamics, 2017, 55, 775-801.	3.7	4
24	Flutter control of long-span suspension bridges. , 2011, , .		3
25	Fuel Consumption Minimization, With Emissions Constraints, for Diesel Powered Cars. IEEE Transactions on Control Systems Technology, 2020, 28, 1243-1257.	5.2	3
26	Robust control of the circular restricted three-body problem with drag. International Journal of Control, 2020, , 1-12.	1.9	3
27	Optimal control of a NASCAR â€" specification race car. Vehicle System Dynamics, 2023, 61, 1210-1235.	3.7	2
28	A review of road models for vehicular control. Vehicle System Dynamics, 2023, 61, 1449-1475.	3.7	2
29	Experimental flutter and buffet suppression of a sectional suspended-bridge. , 2014, , .		1
30	Optimal control of a Two-Mass Skate bicycle without steering. , 2013, , .		0
31	Heave spring and ride height optimisation of a Formula One car suspension system. , 2015, , .		0
32	Robust control of the Hill's problem with drag. International Journal of Robust and Nonlinear Control, 2021, 31, 268-286.	3.7	0