

# D J N Limebeer

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

1,261  
citations

687363

13  
h-index

713466

21  
g-index

28  
all docs

28  
docs citations

28  
times ranked

404  
citing authors

#	ARTICLE	IF	CITATIONS
1	Simplifying the $H^\infty$ theory via loop-shifting, matrix-pencil and descriptor concepts. International Journal of Control, 1989, 50, 2467-2488.	1.9	267
2	Synthesis of positive real multivariable feedback systems. International Journal of Control, 1987, 45, 817-842.	1.9	198
3	A Characterization of All Solutions to the Four Block General Distance Problem. SIAM Journal on Control and Optimization, 1991, 29, 283-324.	2.1	194
4	An Analysis of the Pole-Zero Cancellations in $H^\infty$ -Optimal Control Problems of the First Kind. SIAM Journal on Control and Optimization, 1987, 25, 1457-1493.	2.1	71
5	The application of generalized diagonal dominance to linear system stability theory. International Journal of Control, 1982, 36, 185-212.	1.9	69
6	The stability of motorcycles under acceleration and braking. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2001, 215, 1095-1109.	2.1	48
7	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
8	Dynamics and Optimal Control of Road Vehicles. , 2018, , .		43
9	Hankel model reduction without balancing-A descriptor approach. , 1987, , .		39
10	A Controller Degree Bound for $H^\infty$ -Optimal Control Problems of the Second Kind. SIAM Journal on Control and Optimization, 1988, 26, 646-677.	2.1	38
11	The stability of motorcycles under acceleration and braking. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2001, 215, 1095-1109.	2.1	37
12	State-space algorithm for the computation of superoptimal matrix interpolating functions. International Journal of Control, 1989, 50, 2431-2466.	1.9	35
13	Relaminarisation of $Re_{\tau} = 100$ channel flow with globally stabilising linear feedback control. Physics of Fluids, 2011, 23, 125105.	4.0	34
14	Optimal tyre usage for a Formula One car. Vehicle System Dynamics, 2016, 54, 1448-1473.	3.7	29
15	Minimum-lap-time optimisation and simulation. Vehicle System Dynamics, 2021, 59, 1069-1113.	3.7	22
16	Curved-ribbon-based track modelling for minimum lap-time optimisation. Meccanica, 2021, 56, 2139-2152.	2.0	14
17	A State-Space Algorithm for the Solution of the 2-Block Superoptimal Distance Problem. SIAM Journal on Control and Optimization, 1993, 31, 1115-1134.	2.1	13
18	Optimal tyre management for a high-performance race car. Vehicle System Dynamics, 2022, 60, 1-19.	3.7	13

#	ARTICLE	IF	CITATIONS
19	$H^{\infty}$ optimal control of a synchronous turbo-generator. , 1986, ,		11
20	A State-Space Algorithm for the Superoptimal Hankel-Norm Approximation Problem. SIAM Journal on Control and Optimization, 1993, 31, 960-982.	2.1	10
21	Optimal control of a road racing motorcycle on a three-dimensional closed track. Vehicle System Dynamics, 2020, 58, 1285-1309.	3.7	9
22	Direct reduced order discretization of continuous-time controller. International Journal of Robust and Nonlinear Control, 1999, 9, 143-155.	3.7	8
23	An inclusion region for the eigenvalues of partitioned matrices. International Journal of Control, 1983, 37, 429-436.	1.9	5
24	Nash games and mixed $H_2/H_{\infty}$ control. , 1992, , 210-217.		4
25	Motion cueing in high-performance vehicle simulators. Vehicle System Dynamics, 2017, 55, 775-801.	3.7	4
26	Robust stability of additively perturbed interconnected systems. , 1983, ,		0
27	$H^{\infty}$ -controller degree bounds by interpolation theory. , 1987, ,		0
28	A Frequency Response Design Technique for Decentralized Control Systems. , 1983, ,		0