

# Swaroop Darbha

## List of Publications by Year in descending order

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34  
papers

652  
citations

759233

12  
h-index

752698

20  
g-index

34  
all docs

34  
docs citations

34  
times ranked

470  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Resource Allocation Algorithm for Multivehicle Systems With Nonholonomic Constraints. IEEE Transactions on Automation Science and Engineering, 2007, 4, 98-104.	5.2	162
2	Today's Traveling Salesman Problem. IEEE Robotics and Automation Magazine, 2010, 17, 70-77.	2.0	78
3	Modeling the Pneumatic Subsystem of an S-cam Air Brake System. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2004, 126, 36-46.	1.6	64
4	Output Regulation of Nonlinear Systems With Application to Roll-to-Roll Manufacturing Systems. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1089-1098.	5.8	49
5	A transformation for a Heterogeneous, Multiple Depot, Multiple Traveling Salesman Problem. , 2009, , .		30
6	Optimal UAV Route Planning for Persistent Monitoring Missions. IEEE Transactions on Robotics, 2021, 37, 550-566.	10.3	23
7	Stability of String of Adaptive Cruise Control Vehicles with Parasitic Delays and Lags. , 2008, , .		22
8	A Linear Programming Approach to the Synthesis of Fixed-Structure Controllers. IEEE Transactions on Automatic Control, 2008, 53, 1341-1352.	5.7	21
9	Design of a decentralized detection of interacting LTI systems. Mathematical Problems in Engineering, 2002, 8, 233-248.	1.1	20
10	A transformation for a Multiple Depot, Multiple Traveling Salesman Problem. , 2009, , .		15
11	GPS Denied UAV Routing with Communication Constraints. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 84, 691-703.	3.4	15
12	String Stability of Connected Vehicle Platoons Under Lossy V2V Communication. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 8834-8845.	8.0	15
13	Computation of Lower Bounds for a Multiple Depot, Multiple Vehicle Routing Problem With Motion Constraints. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	1.6	13
14	A Note About the Stability of a String of LTI Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2002, 124, 472-475.	1.6	13
15	Lateral Control of an Autonomous and Connected Following Vehicle With Limited Preview Information. IEEE Transactions on Intelligent Vehicles, 2021, 6, 406-418.	12.7	12
16	Optimal MAV operations in an uncertain environment. International Journal of Robust and Nonlinear Control, 2008, 18, 248-262.	3.7	10
17	Reducing Time Headway in Homogeneous CACC Vehicle Platoons in the Presence of Packet Drops. , 2019, , .		10
18	Optimal Sequential Inspection. , 2006, , .		8

#	ARTICLE	IF	CITATIONS
19	Synthesis of PID controllers with guaranteed non-overshooting transient response. , 2011, , .		7
20	Optimal Human-Machine Teaming for a Sequential Inspection Operation. IEEE Transactions on Human-Machine Systems, 2016, 46, 557-568.	3.5	7
21	Combinatorial Motion Planning of Multiple Vehicle Systems. , 2006, , .		6
22	Development of a model for an air brake system with leaks. , 2009, , .		6
23	A Methodology for Assessing the Benefits of Coordination on the Safety of Vehicles. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2012, 16, 70-81.	4.2	6
24	Aggregation of a class of large-scale, interconnected, nonlinear dynamical systems. Mathematical Problems in Engineering, 2001, 7, 379-392.	1.1	5
25	On the transient control of Linear Time Invariant systems. , 2009, , .		5
26	On Controlling the Transient Response of Linear Time Invariant Systems with Fixed Structure Controllers. Asian Journal of Control, 2012, 14, 1643-1648.	3.0	5
27	Collaborative Platooning of Automated Vehicles Using Variable Time-Gaps. , 2018, , .		5
28	Effect of Heterogeneity in Time Headway on Error Propagation in Vehicular Strings. , 2019, , .		5
29	An approximation algorithm for a 2-Depot, heterogeneous vehicle routing problem. , 2009, , .		4
30	Development of a model for an air brake system with leaks and a scheme for the estimation of the steady-state pushrod stroke. Vehicle System Dynamics, 2011, 49, 1267-1282.	3.7	4
31	Optimal Autonomous Pursuit of an Intruder on a Grid Aided by Local Node and Edge Sensors. Unmanned Systems, 2022, 10, 93-108.	3.6	3
32	Synthesis of absolutely stabilizing controllers. , 2008, , .		2
33	A methodology to assess the safety of automatically controlled vehicles. International Journal of Advances in Engineering Sciences and Applied Mathematics, 2013, 5, 87-93.	1.1	2
34	On the boundedness of the set of stabilizing controllers. International Journal of Robust and Nonlinear Control, 2008, 18, 782-795.	3.7	0