

Sanjay P Bhat

List of Publications by Year in descending order

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39
papers

8,462
citations

535685

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docs citations

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times ranked

4072
citing authors

#	ARTICLE	IF	CITATIONS
1	Asymptotic and Finite-Time Semistability for Nonlinear Discrete-Time Systems With Application to Network Consensus. IEEE Transactions on Automatic Control, 2023, 68, 766-781.	3.6	8
2	Asymptotic and Finite Time Semistability for Nonlinear Discrete-Time Systems. , 2021, , .		5
3	Concentration bounds for empirical conditional value-at-risk: The unbounded case. Operations Research Letters, 2019, 47, 16-20.	0.5	14
4	Sparse Recurrent Mixture Density Networks for Forecasting High Variability Time Series with Confidence Estimates. Lecture Notes in Computer Science, 2019, , 422-433.	1.0	0
5	Rolling Cones, Closed Attitude Trajectories, and Attitude Reconstruction. Journal of the Astronautical Sciences, 2018, 65, 261-290.	0.8	0
6	Closed Rotation Sequences. Discrete and Computational Geometry, 2015, 53, 366-396.	0.4	3
7	Small-Time Local Controllability and Stabilizability of Spacecraft Attitude Dynamics under CMG Actuation. SIAM Journal on Control and Optimization, 2014, 52, 797-820.	1.1	5
8	Explicit formulas for optimal hedging strategies for European contingent claims. , 2013, , .		3
9	Topological properties of asymptotically stable sets. Nonlinear Analysis: Theory, Methods & Applications, 2010, 73, 1093-1097.	0.6	19
10	Finite-time semistability, Filippov systems, and consensus protocols for nonlinear dynamical networks with switching topologies. Nonlinear Analysis: Hybrid Systems, 2010, 4, 557-573.	2.1	50
11	Arc-length-based Lyapunov tests for convergence and stability with applications to systems having a continuum of equilibria. Mathematics of Control, Signals, and Systems, 2010, 22, 155-184.	1.4	42
12	On robust control algorithms for nonlinear network consensus protocols. International Journal of Robust and Nonlinear Control, 2010, 20, 269-284.	2.1	25
13	Average-preserving symmetries and energy equipartition in linear Hamiltonian systems. Mathematics of Control, Signals, and Systems, 2009, 21, 127-146.	1.4	6
14	Boundedness of orbits and stability of closed sets. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, 5332-5343.	0.6	1
15	Controllability of Spacecraft Attitude Using Control Moment Gyroscopes. IEEE Transactions on Automatic Control, 2009, 54, 585-590.	3.6	80
16	Optimal Planar Turns Under Acceleration Constraints. IEEE Transactions on Automatic Control, 2009, 54, 1654-1660.	3.6	6
17	Modeling and analysis of mass-action kinetics. IEEE Control Systems, 2009, 29, 60-78.	1.0	167
18	Semistability, Finite-Time Stability, Differential Inclusions, and Discontinuous Dynamical Systems Having a Continuum of Equilibria. IEEE Transactions on Automatic Control, 2009, 54, 2465-2470.	3.6	122

#	ARTICLE	IF	CITATIONS
19	Feedback stabilization of snap-through buckling in a preloaded two-bar linkage with hysteresis. International Journal of Non-Linear Mechanics, 2008, 43, 277-291.	1.4	13
20	Finite-Time Semistability and Consensus for Nonlinear Dynamical Networks. IEEE Transactions on Automatic Control, 2008, 53, 1887-1900.	3.6	274
21	State dependent communication topology for two satellites seeking angular velocity consensus. , 2008, , .		0
22	Semistability theory for differential inclusions with applications to consensus problems in dynamical networks with switching topology. , 2008, , .		18
23	On robust control algorithms for nonlinear network consensus protocols. , 2008, , .		4
24	Semistability for time-varying discontinuous dynamical systems with application to agreement problems in switching networks. , 2008, , .		12
25	Finite-Time Semistability Theory with Applications to Consensus Protocols in Dynamical Networks. Proceedings of the American Control Conference, 2007, , .	0.0	20
26	Lyapunov and converse Lyapunov theorems for semistability. , 2007, , .		2
27	Output-feedback semiglobal stabilization of stall dynamics for preventing hysteresis and surge in axial-flow compressors. IEEE Transactions on Control Systems Technology, 2006, 14, 301-307.	3.2	16
28	Optimal Planar Turns Under Acceleration Constraints. , 2006, , .		6
29	Time-Optimal Attitude Reorientation at Constant Angular Velocity Magnitude with Bounded Angular Acceleration. , 2006, , .		2
30	Semi-global Practical Stability of Periodic Time-Varying Systems via Averaging: A Lyapunov Approach. , 2006, , .		3
31	Geometric homogeneity with applications to finite-time stability. Mathematics of Control, Signals, and Systems, 2005, 17, 101-127.	1.4	1,290
32	Controllability of nonlinear time-varying systems: applications to spacecraft attitude control using magnetic actuation. IEEE Transactions on Automatic Control, 2005, 50, 1725-1735.	3.6	80
33	An invariance principle for nonlinear hybrid and impulsive dynamical systems. Nonlinear Analysis: Theory, Methods & Applications, 2003, 53, 527-550.	0.6	89
34	Nontangency-Based Lyapunov Tests for Convergence and Stability in Systems Having a Continuum of Equilibria. SIAM Journal on Control and Optimization, 2003, 42, 1745-1775.	1.1	117
35	A topological obstruction to continuous global stabilization of rotational motion and the unwinding phenomenon. Systems and Control Letters, 2000, 39, 63-70.	1.3	666
36	Finite-Time Stability of Continuous Autonomous Systems. SIAM Journal on Control and Optimization, 2000, 38, 751-766.	1.1	3,907

#	ARTICLE	IF	CITATIONS
37	Continuous finite-time stabilization of the translational and rotational double integrators. IEEE Transactions on Automatic Control, 1998, 43, 678-682.	3.6	1,360
38	Example of indeterminacy in classical dynamics. International Journal of Theoretical Physics, 1997, 36, 545-550.	0.5	8
39	Second-Order Systems with Singular Mass Matrix and an Extension of Guyan Reduction. SIAM Journal on Matrix Analysis and Applications, 1996, 17, 649-657.	0.7	19