

Sanjay P Bhat

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

8,462
citations

471509

17
h-index

526287

27
g-index

40
all docs

40
docs citations

40
times ranked

3590
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. | 5.7 | 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. | 0.7 | 14 |
| 4 | Sparse Recurrent Mixture Density Networks for Forecasting High Variability Time Series with Confidence Estimates. Lecture Notes in Computer Science, 2019, , 422-433. | 1.3 | 0 |
| 5 | Rolling Cones, Closed Attitude Trajectories, and Attitude Reconstruction. Journal of the Astronautical Sciences, 2018, 65, 261-290. | 1.5 | 0 |
| 6 | Closed Rotation Sequences. Discrete and Computational Geometry, 2015, 53, 366-396. | 0.6 | 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. | 2.1 | 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. | 1.1 | 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. | 3.5 | 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. | 2.3 | 42 |
| 12 | On robust control algorithms for nonlinear network consensus protocols. International Journal of Robust and Nonlinear Control, 2010, 20, 269-284. | 3.7 | 25 |
| 13 | Average-preserving symmetries and energy equipartition in linear Hamiltonian systems. Mathematics of Control, Signals, and Systems, 2009, 21, 127-146. | 2.3 | 6 |
| 14 | Boundedness of orbits and stability of closed sets. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, 5332-5343. | 1.1 | 1 |
| 15 | Controllability of Spacecraft Attitude Using Control Moment Gyroscopes. IEEE Transactions on Automatic Control, 2009, 54, 585-590. | 5.7 | 80 |
| 16 | Optimal Planar Turns Under Acceleration Constraints. IEEE Transactions on Automatic Control, 2009, 54, 1654-1660. | 5.7 | 6 |
| 17 | Modeling and analysis of mass-action kinetics. IEEE Control Systems, 2009, 29, 60-78. | 0.8 | 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. | 5.7 | 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. | 2.6 | 13 |
| 20 | Finite-Time Semistability and Consensus for Nonlinear Dynamical Networks. IEEE Transactions on Automatic Control, 2008, 53, 1887-1900. | 5.7 | 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. | 5.2 | 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. | 2.3 | 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. | 5.7 | 80 |
| 33 | An invariance principle for nonlinear hybrid and impulsive dynamical systems. Nonlinear Analysis: Theory, Methods & Applications, 2003, 53, 527-550. | 1.1 | 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. | 2.1 | 117 |
| 35 | A topological obstruction to continuous global stabilization of rotational motion and the unwinding phenomenon. Systems and Control Letters, 2000, 39, 63-70. | 2.3 | 666 |
| 36 | Finite-Time Stability of Continuous Autonomous Systems. SIAM Journal on Control and Optimization, 2000, 38, 751-766. | 2.1 | 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. | 5.7 | 1,360 |
| 38 | Example of indeterminacy in classical dynamics. International Journal of Theoretical Physics, 1997, 36, 545-550. | 1.2 | 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. | 1.4 | 19 |