

Shankar Sastry

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89
papers

5,374
citations

28
h-index

73
g-index

93
ext. papers

6,269
ext. citations

3.2
avg. IF

5.58
L-index

| # | Paper | IF | Citations |
|----|---|-----|-----------|
| 89 | Science of design for societal-scale cyber-physical systems: challenges and opportunities. <i>Cyber-Physical Systems</i> , 2019 , 5, 145-172 | 1.1 | 2 |
| 88 | Learning prospect theory value function and reference point of a sequential decision maker 2017 , | | 1 |
| 87 | Safe sequential path planning of multi-vehicle systems via double-obstacle Hamilton-Jacobi-Isaacs variational inequality 2015 , | | 31 |
| 86 | Feedback-Coordinated Ramp Control of Consecutive On-Ramps Using Distributed Modeling and Godunov-Based Satisfiable Allocation. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015 , 16, 2384-2392 | 6.1 | 27 |
| 85 | Analysis of the Godunov-Based Hybrid Model for Ramp Metering and Robust Feedback Control Design. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014 , 15, 2132-2142 | 6.1 | 3 |
| 84 | Design and analysis of a flow control scheme over wireless networks. <i>International Journal of Robust and Nonlinear Control</i> , 2013 , 23, 208-228 | 3.6 | 3 |
| 83 | A Taxonomy of Cyber Attacks on SCADA Systems 2011 , | | 190 |
| 82 | On the optimal detection of an underwater intruder in a channel using unmanned underwater vehicles. <i>Naval Research Logistics</i> , 2011 , 58, 804-820 | 1.5 | 22 |
| 81 | Revisit Dynamic ARIMA Based Anomaly Detection 2011 , | | 11 |
| 80 | The VIKING project: An initiative on resilient control of power networks 2009 , | | 30 |
| 79 | Understanding deadlock and livelock behaviors in Hybrid Control Systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2009 , 3, 150-162 | 4.5 | 10 |
| 78 | Feedback linearization vs. adaptive sliding mode control for a quadrotor helicopter. <i>International Journal of Control, Automation and Systems</i> , 2009 , 7, 419-428 | 2.9 | 392 |
| 77 | Rethinking security properties, threat models, and the design space in sensor networks: A case study in SCADA systems. <i>Ad Hoc Networks</i> , 2009 , 7, 1434-1447 | 4.8 | 79 |
| 76 | An External Active-Set Strategy for Solving Optimal Control Problems. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 1129-1133 | 5.9 | 8 |
| 75 | Robust construction of the Camera Network Complex for topology recovery 2009 , | | 1 |
| 74 | LANDING AN UNMANNED AIR VEHICLE: VISION BASED MOTION ESTIMATION AND NONLINEAR CONTROL. <i>Asian Journal of Control</i> , 2008 , 1, 128-145 | 1.7 | 167 |
| 73 | Optimal sensor density for remote estimation over Wireless Sensor Networks 2008 , | | 7 |

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|----|---|------|-----|
| 72 | Integrity checker for wireless sensor networks in health care applications 2008 , | | 1 |
| 71 | Fusion-based localization for a Heterogeneous camera network 2008 , | | 6 |
| 70 | Transactional Confidentiality in Sensor Networks. <i>IEEE Security and Privacy</i> , 2008 , 6, 28-35 | 2 | 29 |
| 69 | Testbed Implementation of a Secure Flooding Time Synchronization Protocol 2008 , | | 5 |
| 68 | Probabilistic reachability and safety for controlled discrete time stochastic hybrid systems. <i>Automatica</i> , 2008 , 44, 2724-2734 | 5.7 | 239 |
| 67 | Optimal linear LQG control over lossy networks without packet acknowledgment. <i>Asian Journal of Control</i> , 2008 , 10, 3-13 | 1.7 | 56 |
| 66 | Approximate Estimation of Distributed Networked Control Systems. <i>Proceedings of the American Control Conference</i> , 2007 , | 1.2 | 3 |
| 65 | An Evasive Maneuvering Algorithm for UAVs in See-and-Avoid Situations. <i>Proceedings of the American Control Conference</i> , 2007 , | 1.2 | 25 |
| 64 | Inherent Security of Routing Protocols in Ad-Hoc and Sensor Networks 2007 , | | 4 |
| 63 | Using Social Network Theory Towards Development of Wireless Ad Hoc Network Trust 2007 , | | 7 |
| 62 | Box invariance for biologically-inspired dynamical systems 2007 , | | 10 |
| 61 | Sufficient conditions for the existence of zeno behavior in a class of nonlinear hybrid systems via constant approximations 2007 , | | 12 |
| 60 | Automatic Camera Network Localization using Object Image Tracks 2007 , | | 12 |
| 59 | Estimation over Wireless Sensor Networks. <i>Proceedings of the American Control Conference</i> , 2007 , | 1.2 | 14 |
| 58 | Convergence Analysis of Reweighted Sum-Product Algorithms 2007 , | | 3 |
| 57 | Tracking and Coordination of Multiple Agents Using Sensor Networks: System Design, Algorithms and Experiments. <i>Proceedings of the IEEE</i> , 2007 , 95, 234-254 | 14.3 | 88 |
| 56 | Platform Design for Health-Care Monitoring Applications 2007 , | | 14 |
| 55 | Probabilistic reachability and safe sets computation for discrete time stochastic hybrid systems 2006 , | | 8 |

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|----|---|------|-----|
| 54 | Distributed Networked Control System with Lossy Links: State Estimation and Stabilizing Communication Control 2006 , | | 8 |
| 53 | Hybrid Geometric Reduction of Hybrid Systems 2006 , | | 4 |
| 52 | Pursuit Controller Performance Guarantees for a Lifeline Pursuit-Evasion Game over a Wireless Sensor Network 2006 , | | 2 |
| 51 | Two-View Multibody Structure from Motion. <i>International Journal of Computer Vision</i> , 2006 , 68, 7-25 | 10.6 | 104 |
| 50 | Generalized principal component analysis (GPCA). <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2005 , 27, 1945-59 | 13.3 | 540 |
| 49 | NEW CONGESTION CONTROL SCHEMES OVER WIRELESS NETWORKS: STABILITY ANALYSIS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 107-112 | | 4 |
| 48 | Time synchronization attacks in sensor networks 2005 , | | 62 |
| 47 | Multimodal Control of Constrained Nonlinear Systems 2004 , 325-344 | | |
| 46 | Optimal quantum circuit synthesis from controlled-unitary gates. <i>Physical Review A</i> , 2004 , 69, | 2.6 | 29 |
| 45 | Rank Conditions on the Multiple-View Matrix. <i>International Journal of Computer Vision</i> , 2004 , 59, 115-137 | 10.6 | 20 |
| 44 | Geometric theory of nonlocal two-qubit operations. <i>Physical Review A</i> , 2003 , 67, | 2.6 | 219 |
| 43 | Aircraft Conflict Detection in Presence of Spatially Correlated Wind Perturbations 2003 , | | 12 |
| 42 | Hybrid Control of Unmanned Aerial Vehicles for Autonomous Landing 2003 , | | 4 |
| 41 | Omnidirectional Egomotion Estimation From Back-projection Flow 2003 , | | 17 |
| 40 | Structure from Small Baseline Motion with Central Panoramic Cameras 2003 , | | 5 |
| 39 | Optimal Coordinated Motions of Multiple Agents Moving on a Plane. <i>SIAM Journal on Control and Optimization</i> , 2003 , 42, 637-668 | 1.9 | 18 |
| 38 | Robotics, Hybrid Systems for 2003 , 283-292 | | |
| 37 | Optimal Coordinated Maneuvers for Three-Dimensional Aircraft Conflict Resolution. <i>Journal of Guidance, Control, and Dynamics</i> , 2002 , 25, 888-900 | 2.1 | 92 |

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|----|---|------|-----|
| 36 | Bisimulation Based Hierarchical System Architecture for Single-Agent Multi-modal Systems. <i>Lecture Notes in Computer Science</i> , 2002 , 281-293 | 0.9 | 4 |
| 35 | Zeno hybrid systems. <i>International Journal of Robust and Nonlinear Control</i> , 2001 , 11, 435-451 | 3.6 | 155 |
| 34 | Optimization Criteria and Geometric Algorithms for Motion and Structure Estimation. <i>International Journal of Computer Vision</i> , 2001 , 44, 219-249 | 10.6 | 78 |
| 33 | Towards a viability theory of hybrid systems 2001 , | | 3 |
| 32 | Global Controllability of Hybrid Systems with Controlled and Autonomous Switchings. <i>Lecture Notes in Computer Science</i> , 2001 , 375-386 | 0.9 | 1 |
| 31 | Mode Switching Synthesis for Reachability Specifications. <i>Lecture Notes in Computer Science</i> , 2001 , 333-346 | 14 | |
| 30 | Semi-decidable Synthesis for Triangular Hybrid Systems. <i>Lecture Notes in Computer Science</i> , 2001 , 487-500 | 9 | |
| 29 | Linear Differential Algorithm for Motion Recovery: A Geometric Approach. <i>International Journal of Computer Vision</i> , 2000 , 36, 71-89 | 10.6 | 41 |
| 28 | O-Minimal Hybrid Systems. <i>Mathematics of Control, Signals, and Systems</i> , 2000 , 13, 1-21 | 1.3 | 165 |
| 27 | Dynamical Systems Revisited: Hybrid Systems with Zeno Executions. <i>Lecture Notes in Computer Science</i> , 2000 , 451-464 | 0.9 | 30 |
| 26 | Kruppa Equation Revisited: Its Renormalization and Degeneracy. <i>Lecture Notes in Computer Science</i> , 2000 , 561-577 | 0.9 | 8 |
| 25 | Decidable Controller Synthesis for Classes of Linear Systems. <i>Lecture Notes in Computer Science</i> , 2000 , 407-420 | 0.9 | 15 |
| 24 | Towards a Geometric Theory of Hybrid Systems. <i>Lecture Notes in Computer Science</i> , 2000 , 421-436 | 0.9 | 18 |
| 23 | Controlled Invariance of Discrete Time Systems. <i>Lecture Notes in Computer Science</i> , 2000 , 437-451 | 0.9 | 16 |
| 22 | Nonlinear Systems. <i>Interdisciplinary Applied Mathematics</i> , 1999 , | 0.7 | 446 |
| 21 | On the regularization of Zeno hybrid automata. <i>Systems and Control Letters</i> , 1999 , 38, 141-150 | 2.4 | 326 |
| 20 | Controllers for reachability specifications for hybrid systems. <i>Automatica</i> , 1999 , 35, 349-370 | 5.7 | 411 |
| 19 | Computing Controllers for Nonlinear Hybrid Systems. <i>Lecture Notes in Computer Science</i> , 1999 , 238-255 | 0.9 | 18 |

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|----|--|-----|-----|
| 18 | Straightening out rectangular differential inclusions. <i>Systems and Control Letters</i> , 1998 , 35, 79-85 | 2.4 | 3 |
| 17 | Towards continuous abstractions of dynamical and control systems. <i>Lecture Notes in Computer Science</i> , 1997 , 329-341 | 0.9 | 17 |
| 16 | Algorithms for steering on the group of rotations 1993 , | | 3 |
| 15 | Nonlinear control design for slightly non-minimum phase systems: Application to V/STOL aircraft. <i>Automatica</i> , 1992 , 28, 665-679 | 5.7 | 473 |
| 14 | Indirect techniques for adaptive input-output linearization of non-linear systems. <i>International Journal of Control</i> , 1991 , 53, 193-222 | 1.5 | 124 |
| 13 | Indirect Techniques for Adaptive Input Output Linearization of Nonlinear Systems 1990 , | | 5 |
| 12 | Dynamic control of redundant manipulators. <i>Journal of Field Robotics</i> , 1989 , 6, 133-148 | | 134 |
| 11 | Dynamic Coordination of a Multiple Robotic System with Point Contact 1988 , | | 5 |
| 10 | Dynamic Control of Redundant Manipulators 1988 , | | 2 |
| 9 | Slow-drift instability in model reference adaptive systems in averaging analysis. <i>International Journal of Control</i> , 1987 , 45, 503-527 | 1.5 | 8 |
| 8 | The effect of discretized feedback in a closed loop system 1987 , | | 28 |
| 7 | Lyapunov controllability and global optimal control 1986 , | | 3 |
| 6 | New stability theorems for averaging and their application to the convergence analysis of adaptive identification and control schemes 1985 , | | 13 |
| 5 | Elbow and elbow manipulators are optimal! 1985 , | | 1 |
| 4 | Exponential convergence and robustness margins in adaptive control 1984 , | | 6 |
| 3 | Tracking on a graph | | 5 |
| 2 | Security and Privacy Issues with Health Care Information Technology | | 14 |
| 1 | Planning for Autonomous Cars that Leverage Effects on Human Actions | | 111 |

