

Shankar Sastry

List of Publications by Citations

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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	Generalized principal component analysis (GPCA). <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2005 , 27, 1945-59	13.3	540
88	Nonlinear control design for slightly non-minimum phase systems: Application to V/STOL aircraft. <i>Automatica</i> , 1992 , 28, 665-679	5.7	473
87	Nonlinear Systems. <i>Interdisciplinary Applied Mathematics</i> , 1999 ,	0.7	446
86	Controllers for reachability specifications for hybrid systems. <i>Automatica</i> , 1999 , 35, 349-370	5.7	411
85	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
84	On the regularization of Zeno hybrid automata. <i>Systems and Control Letters</i> , 1999 , 38, 141-150	2.4	326
83	Probabilistic reachability and safety for controlled discrete time stochastic hybrid systems. <i>Automatica</i> , 2008 , 44, 2724-2734	5.7	239
82	Geometric theory of nonlocal two-qubit operations. <i>Physical Review A</i> , 2003 , 67,	2.6	219
81	A Taxonomy of Cyber Attacks on SCADA Systems 2011 ,		190
80	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
79	O-Minimal Hybrid Systems. <i>Mathematics of Control, Signals, and Systems</i> , 2000 , 13, 1-21	1.3	165
78	Zeno hybrid systems. <i>International Journal of Robust and Nonlinear Control</i> , 2001 , 11, 435-451	3.6	155
77	Dynamic control of redundant manipulators. <i>Journal of Field Robotics</i> , 1989 , 6, 133-148		134
76	Indirect techniques for adaptive input-output linearization of non-linear systems. <i>International Journal of Control</i> , 1991 , 53, 193-222	1.5	124
75	Planning for Autonomous Cars that Leverage Effects on Human Actions		111
74	Two-View Multibody Structure from Motion. <i>International Journal of Computer Vision</i> , 2006 , 68, 7-25	10.6	104
73	Optimal Coordinated Maneuvers for Three-Dimensional Aircraft Conflict Resolution. <i>Journal of Guidance, Control, and Dynamics</i> , 2002 , 25, 888-900	2.1	92

72	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
71	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
70	Optimization Criteria and Geometric Algorithms for Motion and Structure Estimation. <i>International Journal of Computer Vision</i> , 2001 , 44, 219-249	10.6	78
69	Time synchronization attacks in sensor networks 2005 ,		62
68	Optimal linear LQG control over lossy networks without packet acknowledgment. <i>Asian Journal of Control</i> , 2008 , 10, 3-13	1.7	56
67	Linear Differential Algorithm for Motion Recovery: A Geometric Approach. <i>International Journal of Computer Vision</i> , 2000 , 36, 71-89	10.6	41
66	Safe sequential path planning of multi-vehicle systems via double-obstacle Hamilton-Jacobi-Isaacs variational inequality 2015 ,		31
65	The VIKING project: An initiative on resilient control of power networks 2009 ,		30
64	Dynamical Systems Revisited: Hybrid Systems with Zeno Executions. <i>Lecture Notes in Computer Science</i> , 2000 , 451-464	0.9	30
63	Transactional Confidentiality in Sensor Networks. <i>IEEE Security and Privacy</i> , 2008 , 6, 28-35	2	29
62	Optimal quantum circuit synthesis from controlled-unitary gates. <i>Physical Review A</i> , 2004 , 69,	2.6	29
61	The effect of discretized feedback in a closed loop system 1987 ,		28
60	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
59	An Evasive Maneuvering Algorithm for UAVs in See-and-Avoid Situations. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	25
58	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
57	Rank Conditions on the Multiple-View Matrix. <i>International Journal of Computer Vision</i> , 2004 , 59, 115-137	10.6	20
56	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
55	Towards a Geometric Theory of Hybrid Systems. <i>Lecture Notes in Computer Science</i> , 2000 , 421-436	0.9	18

54	Computing Controllers for Nonlinear Hybrid Systems. <i>Lecture Notes in Computer Science</i> , 1999 , 238-255	0.9	18
53	Towards continuous abstractions of dynamical and control systems. <i>Lecture Notes in Computer Science</i> , 1997 , 329-341	0.9	17
52	Omnidirectional Egomotion Estimation From Back-projection Flow 2003 ,		17
51	Controlled Invariance of Discrete Time Systems. <i>Lecture Notes in Computer Science</i> , 2000 , 437-451	0.9	16
50	Decidable Controller Synthesis for Classes of Linear Systems. <i>Lecture Notes in Computer Science</i> , 2000 , 407-420	0.9	15
49	Estimation over Wireless Sensor Networks. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	14
48	Platform Design for Health-Care Monitoring Applications 2007 ,		14
47	Security and Privacy Issues with Health Care Information Technology		14
46	Mode Switching Synthesis for Reachability Specifications. <i>Lecture Notes in Computer Science</i> , 2001 , 333-346		14
45	New stability theorems for averaging and their application to the convergence analysis of adaptive identification and control schemes 1985 ,		13
44	Sufficient conditions for the existence of zero behavior in a class of nonlinear hybrid systems via constant approximations 2007 ,		12
43	Automatic Camera Network Localization using Object Image Tracks 2007 ,		12
42	Aircraft Conflict Detection in Presence of Spatially Correlated Wind Perturbations 2003 ,		12
41	Revisit Dynamic ARIMA Based Anomaly Detection 2011 ,		11
40	Understanding deadlock and livelock behaviors in Hybrid Control Systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2009 , 3, 150-162	4.5	10
39	Box invariance for biologically-inspired dynamical systems 2007 ,		10
38	Semi-decidable Synthesis for Triangular Hybrid Systems. <i>Lecture Notes in Computer Science</i> , 2001 , 487-500		9
37	An External Active-Set Strategy for Solving Optimal Control Problems. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 1129-1133	5.9	8

36	Probabilistic reachability and safe sets computation for discrete time stochastic hybrid systems 2006,		8
35	Distributed Networked Control System with Lossy Links: State Estimation and Stabilizing Communication Control 2006,		8
34	Kruppa Equation Revisited: Its Renormalization and Degeneracy. <i>Lecture Notes in Computer Science,</i> 2000, 561-577	0.9	8
33	Slow-drift instability in model reference adaptive systems in averaging analysis. <i>International Journal of Control,</i> 1987, 45, 503-527	1.5	8
32	Optimal sensor density for remote estimation over Wireless Sensor Networks 2008,		7
31	Using Social Network Theory Towards Development of Wireless Ad Hoc Network Trust 2007,		7
30	Fusion-based localization for a Heterogeneous camera network 2008,		6
29	Exponential convergence and robustness margins in adaptive control 1984,		6
28	Testbed Implementation of a Secure Flooding Time Synchronization Protocol 2008,		5
27	Tracking on a graph		5
26	Structure from Small Baseline Motion with Central Panoramic Cameras 2003,		5
25	Indirect Techniques for Adaptive Input Output Linearization of Nonlinear Systems 1990,		5
24	Dynamic Coordination of a Multiple Robotic System with Point Contact 1988,		5
23	Hybrid Geometric Reduction of Hybrid Systems 2006,		4
22	Inherent Security of Routing Protocols in Ad-Hoc and Sensor Networks 2007,		4
21	Hybrid Control of Unmanned Aerial Vehicles for Autonomous Landing 2003,		4
20	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
19	Bisimulation Based Hierarchical System Architecture for Single-Agent Multi-modal Systems. <i>Lecture Notes in Computer Science,</i> 2002, 281-293	0.9	4

18	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
17	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
16	Straightening out rectangular differential inclusions. <i>Systems and Control Letters</i> , 1998 , 35, 79-85	2.4	3
15	Approximate Estimation of Distributed Networked Control Systems. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	3
14	Convergence Analysis of Reweighted Sum-Product Algorithms 2007 ,		3
13	Towards a viability theory of hybrid systems 2001 ,		3
12	Lyapunov controllability and global optimal control 1986 ,		3
11	Algorithms for steering on the group of rotations 1993 ,		3
10	Science of design for societal-scale cyber-physical systems: challenges and opportunities. <i>Cyber-Physical Systems</i> , 2019 , 5, 145-172	1.1	2
9	Pursuit Controller Performance Guarantees for a Lifeline Pursuit-Evasion Game over a Wireless Sensor Network 2006 ,		2
8	Dynamic Control of Redundant Manipulators 1988 ,		2
7	Learning prospect theory value function and reference point of a sequential decision maker 2017 ,		1
6	Robust construction of the Camera Network Complex for topology recovery 2009 ,		1
5	Integrity checker for wireless sensor networks in health care applications 2008 ,		1
4	Elbow and elbow manipulators are optimal! 1985 ,		1
3	Global Controllability of Hybrid Systems with Controlled and Autonomous Switchings. <i>Lecture Notes in Computer Science</i> , 2001 , 375-386	0.9	1
2	Multimodal Control of Constrained Nonlinear Systems 2004 , 325-344		
1	Robotics, Hybrid Systems for 2003 , 283-292		

