

Toshimitsu Ushio

List of Publications by Year in Descending Order

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Version: 2024-04-25

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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.

137
papers

718
citations

13
h-index

22
g-index

160
ext. papers

882
ext. citations

1.5
avg, IF

4.29
L-index

#	Paper	IF	Citations
137	Abstraction-Based Symbolic Control Barrier Functions for Safety-Critical Embedded Systems 2022 , 6, 1436-1441		1
136	Hyper-Labeled Transition System and Its Application to Planning Under Linear Temporal Logic Constraints 2022 , 6, 2437-2442		
135	Dynamics of miners' decision making under taxation in blockchain. <i>Nonlinear Theory and Its Applications IEICE</i> , 2022 , 13, 233-238	0.6	
134	Learning-Based Bounded Synthesis for Semi-MDPs With LTL Specifications 2022 , 6, 2557-2562		
133	Finite-Memory Supervisory Control of Discrete Event Systems for LTL[F] Specifications. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	
132	. <i>IEEE Access</i> , 2021 , 9, 148810-148820	3.5	2
131	Abstraction-Based Control Under Quantized Observation With Approximate Opacity Using Symbolic Control Barrier Functions 2021 , 1-1		1
130	Hopf Bifurcations of a Quadrotor with a Tilting Frame. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2021 , E104.A, 632-635	0.4	
129	Game-Theoretic Approach to a Decision-Making Problem for Blockchain Mining 2021 , 5, 1783-1788		2
128	Continuous deep Q-learning with a simulator for stabilization of uncertain discrete-time systems. <i>Nonlinear Theory and Its Applications IEICE</i> , 2021 , 12, 738-757	0.6	0
127	Modeling and Supervisory Control of Blockchain Forks. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2021 , E104.A, 474-475	0.4	0
126	A Bayesian Optimization Approach to Decentralized Event-Triggered Control. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2021 , E104.A, 447-454	0.4	1
125	Event-triggered control for mitigating SIS spreading processes. <i>Annual Reviews in Control</i> , 2021 , 52, 479-479		2
124	Stability analysis and control of decision-making of miners in blockchain. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2021 ,	0.4	1
123	Reinforcement Learning of Control Policy for Linear Temporal Logic Specifications Using Limit-Deterministic Generalized Büchi Automata 2020 , 4, 761-766		4
122	On-Line Permissive Supervisory Control of Discrete Event Systems for sLTL Specifications 2020 , 4, 530-535		3
121	Learning Self-Triggered Controllers With Gaussian Processes. <i>IEEE Transactions on Cybernetics</i> , 2020 ,	10.2	3

120	Control of Timed Discrete Event Systems with Ticked Linear Temporal Logic Constraints. <i>IFAC-PapersOnLine</i> , 2020 , 53, 2143-2148	0.7	2
119	On-Line Synthesis of Permissive Supervisors for Partially Observed Discrete Event Systems under scLTL Constraints. <i>IFAC-PapersOnLine</i> , 2020 , 53, 2130-2136	0.7	
118	Application of deep reinforcement learning to networked control systems with uncertain network delays. <i>Nonlinear Theory and Its Applications IEICE</i> , 2020 , 11, 480-500	0.6	2
117	Design of Event-Triggered Controllers Using Gaussian Processes. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , 2020 , 33, 219-228	0.1	
116	Control of Discrete-Time Chaotic Systems with Policy-Based Deep Reinforcement Learning. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2020 , E103.A, 885-892	0.4	
115	Effects of miners location on blocks selection in blockchain. <i>IEICE Communications Express</i> , 2020 , 9, 610-615	0.1	
114	Novel stability condition for delayed fractional-order composite systems based on vector Lyapunov function. <i>Nonlinear Dynamics</i> , 2020 , 99, 1253-1267	5	10
113	Supervisory Control of Communicating Timed Discrete Event Systems for State Avoidance Problem 2020 , 4, 259-264		4
112	A Symbolic Approach to the Self-Triggered Design for Networked Control Systems 2019 , 3, 1050-1055		2
111	Application of reinforcement learning to adaptive control of connected vehicles. <i>Nonlinear Theory and Its Applications IEICE</i> , 2019 , 10, 443-454	0.6	3
110	On Stability of Consensus Control of Discrete-Time Multi-Agent Systems by Multiple Pinning Agents 2019 , 3, 1038-1043		2
109	Anti-jamming mobile control using QoS-based reinforcement learning. <i>IEICE Communications Express</i> , 2019 , 8, 501-506	0.4	0
108	Learning in Two-Player Matrix Games by Policy Gradient Lagging Anchor. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2019 , E102.A, 708-711	0.4	
107	Application of Deep Reinforcement Learning to Control Problems. <i>The Brain & Neural Networks</i> , 2019 , 26, 135-144	0.1	0
106	Deadlock-free output feedback controller design based on approximately abstracted observers. <i>Nonlinear Analysis: Hybrid Systems</i> , 2018 , 30, 58-71	4.5	4
105	Hierarchical Control of Concurrent Discrete Event Systems with Linear Temporal Logic Specifications. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2018 , E101.A, 313-321	0.4	2
104	Looking Back on My Research on Systems Engineering for 40 Years. <i>Ieice Ess Fundamentals Review</i> , 2018 , 11, 151-154	0.1	
103	Decentralized Event-Triggered Control of Composite Systems Using M-Matrices. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2018 , E101.A, 1156-1161	0.4	2

102	Supervisory Control of Partially Observed Quantitative Discrete Event Systems for Fixed-Initial-Credit Energy Problem. <i>IEICE Transactions on Information and Systems</i> , 2017 , E100.D, 1166-1171	0.6	6
101	Dynamic Pinning Consensus Control of Multi-Agent Systems 2017 , 1, 340-345		6
100	Development of parallel linked quadrotor for increment of flight freedom, attitude control and improvement of transient response. <i>Transactions of the JSME (in Japanese)</i> , 2017 , 83, 17-00207-17-00207	0.2	
99	Detection of Mode Confusion in Human-Machine System Model with Temporal Information on Operations.. <i>IFAC-PapersOnLine</i> , 2017 , 50, 9374-9379	0.7	1
98	Symbolic Design of Networked Control Systems with State Prediction. <i>IEICE Transactions on Information and Systems</i> , 2017 , E100.D, 1158-1165	0.6	4
97	Dynamic event-triggered minimal-order observer for linear systems 2016 ,		2
96	A Bisimulation-Based Design of User Interface With Alerts Avoiding Automation Surprises. <i>IEEE Transactions on Human-Machine Systems</i> , 2016 , 46, 317-323	4.1	2
95	Subsidy-Based Control of Heterogeneous Multiagent Systems Modeled by Replicator Dynamics. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 3158-3163	5.9	5
94	Optimal Digital Control with Uncertain Network Delay of Linear Systems Using Reinforcement Learning. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2016 , E99.A, 454-461	0.4	2
93	Optimal Stabilizing Supervisor of Quantitative Discrete Event Systems under Partial Observation. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2016 , E99.A, 475-482	0.4	4
92	Symbolic control of systems with dead times using symbolic smith predictors 2016 ,		3
91	Optimal Stabilizing Controller for the Region of Weak Attraction under the Influence of Disturbances. <i>IEICE Transactions on Information and Systems</i> , 2016 , E99.D, 1428-1435	0.6	4
90	Adaptive Assignment of Deadline and Clock Frequency in Real-Time Embedded Control Systems. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2015 , E98.A, 323-330	0.4	
89	RL-based optimal networked control considering network delay of discrete-time linear systems 2015 ,		1
88	Distributed event-triggered output feedback control with cloud-assisted observer 2015 ,		1
87	Learning an Optimal Control Policy for a Markov Decision Process Under Linear Temporal Logic Specifications 2015 ,		4
86	Observer-based Similarity Output Feedback Control of Cyber-Physical Systems**This work was supported by JSPS KAKENHI No. 15K14007.. <i>IFAC-PapersOnLine</i> , 2015 , 48, 248-253	0.7	2
85	SMT-based scheduling of distributed mediator for web service composition 2015 ,		1

84	Self-Triggered Predictive Control with Time-Dependent Activation Costs of Mixed Logical Dynamical Systems. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2014 , E97.A, 476-483	0.4	5
83	Game theoretic approach to the stabilization of heterogeneous multiagent systems using subsidy 2013 ,		1
82	Effective Combination of Search Policy Based on Probability and Entropy for Heterogeneous Mobile Sensors 2013 ,		1
81	A Control Method of Dynamic Selfish Routing Based on a State-Dependent Tax. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2013 , E96.A, 1794-1802	0.4	3
80	Evolutionarily and Neutrally Stable Strategies in Multicriteria Games. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2013 , E96.A, 814-820	0.4	4
79	Co-scheduling of Communication and Control of Multi-Hop Control Networks. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2013 , E96.A, 878-885	0.4	2
78	Temperature-aware Frequency Assignment for MP-SoC using Potential Games. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , 2013 , 26, 147-155	0.1	1
77	Verification of Codiagnosability for Discrete Event Systems Modeled by Mealy Automata With Nondeterministic Output Functions. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 798-804	5.9	3 ¹
76	Poster Abstract: Design of Modified Observer to Reduce State Estimation Error Caused by Job Skipping in Cyber-Physical Systems 2012 ,		1
75	Potential Game Based Distributed Control for Voronoi Coverage Problems with Obstacle Avoidance. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2012 , E95.A, 1156-1163	0.4	3
74	Optimal Arbitration of Control Tasks by Job Skipping in Cyber-Physical Systems 2011 ,		5
73	Voronoi coverage control with time-driven communication for mobile sensing networks with obstacles 2011 ,		3
72	Potential Game Theoretic Approach to Power-Aware Mobile Sensor Coverage Problem. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2011 , E94-A, 929-936	0.4	5
71	Decentralized diagnosis of discrete event systems modeled by Mealy automata with nondeterministic output functions 2010 ,		2
70	Optimal Configuration for Multiversion Real-Time Systems Using Slack Based Schedulability. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2010 , E93-A, 2709-2716	0.4	6
69	Optimal Resource Allocation under Fair QoS in Multi-tier Server Systems. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , 2010 , 23, 39-45	0.1	1
68	Diagnosis of Discrete Event Systems Modeled by Mealy Automata with Nondeterministic Output Functions. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , 2010 , 23, 128-135	0.1	
67	Adaptive Arbitration of Fair QoS Based Resource Allocation in Multi-Tier Computing Systems. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2010 , E93-A, 1678-1683	0.4	2

66	Replicator dynamics with Pigovian subsidy and capitation tax. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2009 , 71, e818-e826	1.3	10
65	A control method of selfish routing based on replicator dynamics with capitation tax and subsidy 2009 ,		2
64	Supervisory control of discrete event systems modeled by Mealy automata with nondeterministic output functions 2009 ,		11
63	Supervisory Control of Discrete Event Systems Modeled by Mealy Automata with Nondeterministic Output Functions. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , 2009 , 22, 154-160	0.1	1
62	Application of a consensus problem to fair multi-resource allocation in real-time systems 2008 ,		4
61	Power-aware optimization of CPU and frequency allocation based on fairness of QoS. <i>Systems and Computers in Japan</i> , 2007 , 38, 37-45		
60	Nonlinear Phenomena in Hybrid Systems. <i>Ieice Ess Fundamentals Review</i> , 2007 , 1, 41-50	0.1	3
59	Replicator Dynamics of Evolutionary Hypergames. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2007 , 37, 132-138		10
58	Adaptive Resource Allocation Control for Fair QoS Management. <i>IEEE Transactions on Computers</i> , 2007 , 56, 344-357	2.5	27
57	Asymptotic stabilization and synchronization of parametric LCR resonant circuit using the characteristics of its coefficients. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)</i> , 2006 , 154, 48-55	0.4	
56	Detection of Automation Surprises in Discrete Event Systems Operated by Multiple Users 2006 ,		2
55	CONTROL OF A CHAOTIC SWITCHED ARRIVAL SYSTEM WITH CONTROLLED INTERNAL CONNECTIONS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2006 , 16, 701-707	2	1
54	CONTROL-INVARIANCE OF SAMPLEDDATA HYBRID SYSTEMS WITH PERIODICALLY CLOCKED EVENTS AND JITTER. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 417-422		1
53	Design of user-interface without automation surprises for discrete event systems. <i>Control Engineering Practice</i> , 2006 , 14, 1249-1258	3.9	7
52	The formulation of the control of an expression pattern in a gene network by propositional calculus. <i>Journal of Theoretical Biology</i> , 2006 , 240, 443-50	2.3	7
51	A New Class of Supervisors for Timed Discrete Event Systems Under Partial Observation. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2006 , 16, 257-278	1	15
50	Control-Invariance of Sampled-Data Hybrid Systems with Periodically Clocked Events and Jitter 2006 , 417-422		1
49	COMPUTATION OF CLOSED, CONTROLLABLE, AND WEAKLY OBSERVABLE SUBLANGUAGES FOR TIMED DISCRETE EVENT SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 139-144		

48	Control-invariance of hybrid systems with forcible events. <i>Automatica</i> , 2005 , 41, 669-675	5-7	3
47	Maximally permissive mutually and globally nonblocking supervision with application to switching control. <i>Automatica</i> , 2005 , 41, 1299-1312	5-7	11
46	Supervisory Control of a Class of Concurrent Discrete Event Systems Under Partial Observation. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2005 , 15, 7-32	1	6
45	PID congestion control in ATM with propagation delay. <i>Electronics and Communications in Japan</i> , 2004 , 87, 90-99		1
44	Decentralized Supervisory Control of Discrete Event Systems Based on Reinforcement Learning. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2004 , 37, 367-372		0
43	Asymptotic Stabilization and Synchronization of Parametric LCR Resonant Circuit using Characteristics of its Coefficients. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2004 , 124, 1141-1147	0.1	
42	ANALYSIS OF APERIODIC OSCILLATIONS IN A FLOW MODEL OF A SWITCHING SYSTEM. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2003 , 13, 981-994	2	2
41	State feedback control of timed hybrid Petri nets. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 2003 , 86, 1-7		
40	Effective computation of an Lm(G)-closed, controllable, and observable sublanguage arising in supervisory control. <i>Systems and Control Letters</i> , 2003 , 49, 191-200	2.4	37
39	A high-dimensional chaotic discrete-time neuron model and bursting phenomena. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003 , 308, 41-46	2.3	6
38	A modified normality condition for decentralized supervisory control of discrete event systems. <i>Automatica</i> , 2002 , 38, 185-189	5-7	11
37	STABILIZATION OF UNSTABLE PERIODIC ORBITS OF CHAOTIC DISCRETE-TIME SYSTEMS USING PREDICTION-BASED FEEDBACK CONTROL. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2002 , 12, 439-446	2	23
36	DELAYED FEEDBACK CONTROL WITH A MINIMAL-ORDER OBSERVER FOR STABILIZATION OF CHAOTIC DISCRETE-TIME SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2002 , 12, 1047-1055	2	13
35	Strong Co-Observability for Decentralized Supervisory Control of Discrete Event Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2001 , 34, 127-132		
34	Chaos communication using unknown input observers. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 2001 , 84, 21-27		10
33	Discrete-time HoggHuberman strategy with net bias. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 2000 , 83, 31-37		2
32	Scrambling method using chaotic discrete-time systems. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 2000 , 83, 38-43		1
31	Control of chaos in switched arrival systems with N buffers. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 2000 , 83, 81-86		3

30	Prediction-based control of chaos. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1999 , 264, 30-35	2.3	80
29	A packet routing method based on a Hogg-Huberman strategy. <i>Electronics and Communications in Japan</i> , 1999 , 82, 16-23		
28	Chaos coding with memory using many chaotic discrete-time systems. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 1999 , 82, 49-55		
27	Delayed feedback control with nonlinear estimation in chaotic discrete-time systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998 , 247, 112-118	2.3	32
26	A Packet Routing Method Based on a Hogg-Huberman Strategy. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1998 , 31, 757-762		
25	Chaos and Robots. Control of Chaos.. <i>Journal of the Robotics Society of Japan</i> , 1997 , 15, 1114-1117	0.1	
24	Controlling chaotic discrete-time systems via nonlinear feedback. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 1996 , 79, 34-42		2
23	Maximally permissive controllers for controlled time petri nets. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 1996 , 79, 1-8		
22	Command-Based Supervisory Control of Discrete Event Systems. <i>Transactions of the Society of Instrument and Control Engineers</i> , 1996 , 32, 429-431	0.1	
21	Fault Diagnosis in Discrete Event Systems via State and Event Observations. <i>Transactions of the Society of Instrument and Control Engineers</i> , 1996 , 32, 750-757	0.1	
20	Stabilization and blocking in state feedback control of discrete event systems. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 1995 , 5, 33-57	1	1
19	Controlling chaos in a switched arrival system. <i>Systems and Control Letters</i> , 1995 , 26, 335-339	2.4	35
18	Chaotic synchronization and controlling chaos based on contraction mappings. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995 , 198, 14-22	2.3	51
17	Decentralized control of chaos in nonlinear networks. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995 , 198, 327-332	2.3	6
16	Supervisory control using augmented languages in discrete event systems. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 1994 , 4, 5-22	1	1
15	Decentralized state feedback control of discrete event systems. <i>Systems and Control Letters</i> , 1994 , 22, 369-375	2.4	15
14	Synthesis of decentralized state feedbacks for large-scale discrete event systems. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 1994 , 77, 34-43		
13	Controllability of predicates and languages in discrete-event systems. <i>International Journal of Systems Science</i> , 1992 , 23, 1777-1783	2.3	1

12	Computation of the Supremal Controllable Sublanguage Using an Augmented Language. <i>Transactions of the Society of Instrument and Control Engineers</i> , 1992 , 28, 872-878	0.1	
11	Feedback logic for discrete event systems with arbitrary control patterns. <i>International Journal of Control</i> , 1990 , 52, 159-174	1.5	6
10	Controllability and control-invariance in discrete-event systems. <i>International Journal of Control</i> , 1989 , 50, 1507-1515	1.5	8
9	Several Properties of State Feedbacks in Discrete Event Systems. <i>Transactions of the Society of Instrument and Control Engineers</i> , 1989 , 25, 552-557	0.1	
8	Controllable Firing Sequences in Event-Driven Systems. <i>Transactions of the Society of Instrument and Control Engineers</i> , 1988 , 24, 156-161	0.1	4
7	Simple example of digital control systems with chaotic rounding errors. <i>International Journal of Control</i> , 1987 , 45, 17-31	1.5	6
6	Cell simplex degeneracy, Liapunov function and stability of simple cell mapping systems. <i>International Journal of Non-Linear Mechanics</i> , 1986 , 21, 183-195	2.8	3
5	Chaos induced by the generalized Euler method. <i>International Journal of Systems Science</i> , 1986 , 17, 669-678		4
4	Chaotic behavior in piecewise-linear sampled-data control systems. <i>International Journal of Non-Linear Mechanics</i> , 1985 , 20, 493-506	2.8	21
3	Chaotic Behavior in Pulse-Width Modulated Feedback Systems. <i>Transactions of the Society of Instrument and Control Engineers</i> , 1985 , 21, 539-545	0.1	1
2	Chaos in non-linear sampled-data control systems. <i>International Journal of Control</i> , 1983 , 38, 1023-1033	1.5	31
1	Output Feedback Controller Design with Symbolic Observers for Cyber-physical Systems. <i>Electronic Proceedings in Theoretical Computer Science</i> , <i>EPTCS</i> ,232, 37-51		4