

Hideaki Ishii

List of Publications by Year in descending order

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161
papers

3,707
citations

172386

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162
all docs

162
docs citations

162
times ranked

2089
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive quantized control for nonlinear uncertain systems. <i>Systems and Control Letters</i> , 2009, 58, 625-632.	1.3	221
2	Average consensus on general strongly connected digraphs. <i>Automatica</i> , 2012, 48, 2750-2761.	3.0	194
3	Adaptive quantized control for linear uncertain discrete-time systems. <i>Automatica</i> , 2009, 45, 692-700.	3.0	188
4	Resilient consensus of second-order agent networks: Asynchronous update rules with delays. <i>Automatica</i> , 2017, 81, 123-132.	3.0	153
5	Networked Control Under Random and Malicious Packet Losses. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 2434-2449.	3.6	153
6	Tradeoffs between quantization and packet loss in networked control of linear systems. <i>Automatica</i> , 2009, 45, 2963-2970.	3.0	139
7	Detection of Cyber Attacks Against Voltage Control in Distribution Power Grids With PVs. <i>IEEE Transactions on Smart Grid</i> , 2016, 7, 1824-1835.	6.2	118
8	Distributed Randomized Algorithms for the PageRank Computation. <i>IEEE Transactions on Automatic Control</i> , 2010, 55, 1987-2002.	3.6	111
9	Resilient Randomized Quantized Consensus. <i>IEEE Transactions on Automatic Control</i> , 2018, 63, 2508-2522.	3.6	107
10	Quantized Consensus and Averaging on Gossip Digraphs. <i>IEEE Transactions on Automatic Control</i> , 2011, 56, 2087-2100.	3.6	98
11	Monte Carlo and Las Vegas Randomized Algorithms for Systems and Control*. <i>European Journal of Control</i> , 2007, 13, 189-203.	1.6	92
12	Consensus of second-order multi-agent systems in the presence of locally bounded faults. <i>Systems and Control Letters</i> , 2015, 79, 23-29.	1.3	91
13	An Overview on Denial-of-Service Attacks in Control Systems: Attack Models and Security Analyses. <i>Entropy</i> , 2019, 21, 210.	1.1	88
14	Ergodic Randomized Algorithms and Dynamics Over Networks. <i>IEEE Transactions on Control of Network Systems</i> , 2015, 2, 78-87.	2.4	86
15	The PageRank Problem, Multiagent Consensus, and Web Aggregation: A Systems and Control Viewpoint. <i>IEEE Control Systems</i> , 2014, 34, 34-53.	1.0	72
16	Event-Based Distributed Clock Synchronization for Wireless Sensor Networks. <i>IEEE Transactions on Automatic Control</i> , 2015, 60, 2266-2271.	3.6	70
17	Coordinated Cyber-Attacks on the Measurement Function in Hybrid State Estimation. <i>IEEE Transactions on Power Systems</i> , 2015, 30, 2487-2497.	4.6	67
18	Average Consensus on Arbitrary Strongly Connected Digraphs With Time-Varying Topologies. <i>IEEE Transactions on Automatic Control</i> , 2014, 59, 1066-1071.	3.6	65

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19	A Web Aggregation Approach for Distributed Randomized PageRank Algorithms. IEEE Transactions on Automatic Control, 2012, 57, 2703-2717.	3.6	64
20	Stabilization of Uncertain Systems With Finite Data Rates and Markovian Packet Losses. IEEE Transactions on Control of Network Systems, 2014, 1, 298-307.	2.4	63
21	Stabilization of Networked Control Systems Under DoS Attacks and Output Quantization. IEEE Transactions on Automatic Control, 2020, 65, 3560-3575.	3.6	62
22	Networked Control Under DoS Attacks: Tradeoffs Between Resilience and Data Rate. IEEE Transactions on Automatic Control, 2021, 66, 460-467.	3.6	59
23	Fault-Tolerant Clock Synchronization Over Unreliable Channels in Wireless Sensor Networks. IEEE Transactions on Control of Network Systems, 2018, 5, 1551-1562.	2.4	51
24	Resilient Consensus Through Event-Based Communication. IEEE Transactions on Control of Network Systems, 2020, 7, 471-482.	2.4	50
25	Enhancing Robustness to Cyber-Attacks in Power Systems Through Multiple Least Trimmed Squares State Estimations. IEEE Transactions on Power Systems, 2016, 31, 4395-4405.	4.6	48
26	Analysis of Stochastic Switched Systems With Application to Networked Control Under Jamming Attacks. IEEE Transactions on Automatic Control, 2019, 64, 2013-2028.	3.6	48
27	Coarsest quantization for networked control of uncertain linear systems. Automatica, 2015, 51, 1-8.	3.0	39
28	Limitations in remote stabilization over unreliable channels without acknowledgements. Automatica, 2009, 45, 2278-2285.	3.0	33
29	Characterization of a complementary sensitivity property in feedback control: An information theoretic approach. Automatica, 2009, 45, 504-509.	3.0	30
30	Randomized Transmission Protocols for Protection against Jamming Attacks in Multi-Agent Consensus. Automatica, 2020, 117, 108960.	3.0	29
31	Resilient distributed model predictive control for energy management of interconnected microgrids. Optimal Control Applications and Methods, 2020, 41, 146-169.	1.3	28
32	Privacy-Preserving Distributed Machine Learning via Local Randomization and ADMM Perturbation. IEEE Transactions on Signal Processing, 2020, 68, 4226-4241.	3.2	28
33	Stabilization under shared communication with message losses and its limitations. , 2006, , .		27
34	Achievable sensitivity bounds for MIMO control systems via an information theoretic approach. Systems and Control Letters, 2011, 60, 111-118.	1.3	26
35	LTS-Based Robust Hybrid SE Integrating Correlation. IEEE Transactions on Power Systems, 2017, 32, 3127-3135.	4.6	26
36	An overview on multi-agent consensus under adversarial attacks. Annual Reviews in Control, 2022, 53, 252-272.	4.4	24

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37	Stabilization of uncertain systems using quantized and lossy observations and uncertain control inputs. <i>Automatica</i> , 2017, 81, 261-269.	3.0	21
38	Secure consensus with distributed detection via two-hop communication. <i>Automatica</i> , 2021, 131, 109775.	3.0	21
39	The coarsest logarithmic quantizers for stabilization of linear systems with packet losses. , 2007, , .		20
40	Self-triggered control with tradeoffs in communication and computation. <i>Automatica</i> , 2018, 94, 373-380.	3.0	20
41	Fundamental limitations and intrinsic limits of feedback: An overview in an information age. <i>Annual Reviews in Control</i> , 2019, 47, 155-177.	4.4	20
42	Average consensus on general digraphs. , 2011, , .		19
43	Event-Triggered Output Feedback Control Resilient Against Jamming Attacks and Random Packet Losses—This work was supported in part by Japan Science and Technology Agency under the CREST program. <i>IFAC-PapersOnLine</i> , 2015, 48, 270-275.	0.5	19
44	Sampled Observability and State Estimation of Linear Discrete Ensembles. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 2406-2418.	3.6	18
45	Stochastic communication protocols for multi-agent consensus under jamming attacks. , 2017, , .		18
46	Data Rate Limitations in Feedback Control over Networks. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2012, E95.A, 680-690.	0.2	17
47	Dynamic Quantized Consensus of General Linear Multiagent Systems Under Denial-of-Service Attacks. <i>IEEE Transactions on Control of Network Systems</i> , 2022, 9, 562-574.	2.4	17
48	Convergence time analysis of quantized gossip consensus on digraphs. <i>Automatica</i> , 2012, 48, 2344-2351.	3.0	16
49	Distributed randomized PageRank computation based on web aggregation. , 2009, , .		15
50	Statistical outlier detection for diagnosis of cyber attacks in power state estimation. , 2016, , .		15
51	Design constraints and limits of networked feedback in disturbance attenuation: An information-theoretic analysis. <i>Automatica</i> , 2017, 79, 65-77.	3.0	15
52	Vulnerabilities in Lagrange-based distributed model predictive control. <i>Optimal Control Applications and Methods</i> , 2018, 39, 601-621.	1.3	15
53	CPS-Sim: Co-Simulation for Cyber-Physical Systems with Accurate Time Synchronization. <i>IFAC-PapersOnLine</i> , 2018, 51, 70-75.	0.5	14
54	Power Systems Decomposition for Robustifying State Estimation Under Cyber Attacks. <i>IEEE Transactions on Power Systems</i> , 2021, 36, 1922-1933.	4.6	14

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55	Tradeoffs in Networked Feedback Systems: From Information-Theoretic Measures to Bode-Type Integrals. IEEE Transactions on Automatic Control, 2017, 62, 1046-1061.	3.6	13
56	A PageRank based coalitional control scheme. International Journal of Control, Automation and Systems, 2017, 15, 1983-1990.	1.6	13
57	Dynamic Resilient Network Games With Applications to Multiagent Consensus. IEEE Transactions on Control of Network Systems, 2021, 8, 246-259.	2.4	13
58	Security Analysis of Linearization for Nonlinear Networked Control Systems Under DoS. IEEE Transactions on Control of Network Systems, 2021, 8, 1692-1704.	2.4	13
59	Almost sure convergence of a randomized algorithm for relative localization in sensor networks. , 2013, , .		12
60	A distributed randomized algorithm for relative localization in sensor networks. , 2013, , .		12
61	Resilient Real-Valued Consensus in Spite of Mobile Malicious Agents on Directed Graphs. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 586-603.	4.0	12
62	Linearization-Based Quantized Stabilization of Nonlinear Systems Under DoS Attacks. IEEE Transactions on Automatic Control, 2022, 67, 6826-6833.	3.6	12
63	On detection of cyber attacks against voltage control in distribution power grids. , 2014, , .		11
64	Resilient consensus of second-order agent networks: Asynchronous update rules over robust graphs. , 2015, , .		11
65	The Effect of Time-Varying Jamming Interference on Networked Stabilization. SIAM Journal on Control and Optimization, 2018, 56, 2398-2435.	1.1	11
66	Quantized Output Feedback Stabilization under DoS Attacks. , 2018, , .		10
67	Networked Control under DoS Attacks: Trade-off between Resilience and Data Rate. , 2019, , .		10
68	Event-triggered control for discrete-time multi-agent average consensus. International Journal of Robust and Nonlinear Control, 2023, 33, 159-176.	2.1	10
69	Subgame Perfect Equilibrium Analysis for Jamming Attacks on Resilient Graphs. , 2019, , .		10
70	Resilient Consensus with Multi-hop Communication. , 2021, , .		10
71	Cyber attacks scenarios on the measurement function of power state estimation. , 2015, , .		9
72	Resilient randomized quantized consensus. , 2016, , .		9

#	ARTICLE	IF	CITATIONS
73	Maximum-Based Consensus and Its Resiliency. IFAC-PapersOnLine, 2018, 51, 283-288.	0.5	9
74	Resilient Distributed Averaging. , 2019, , .		9
75	Resilient Consensus Through Asynchronous Event-based Communication. , 2019, , .		9
76	Dynamic Quantized Consensus of General Linear Multi-agent Systems under Denial-of-Service Attacks. IFAC-PapersOnLine, 2020, 53, 3533-3538.	0.5	9
77	A distributed randomized approach for the PageRank computation: Part 2. , 2008, , .		8
78	A distributed randomized approach for the PageRank computation: Part 1. , 2008, , .		8
79	Fundamental error bounds in state estimation: An information-theoretic analysis. , 2017, , .		8
80	Distributed Randomized Algorithms for PageRank Based on a Novel Interpretation. , 2018, , .		8
81	An event-triggered approach to quantized resilient consensus. International Journal of Robust and Nonlinear Control, 2020, 30, 4188-4204.	2.1	8
82	Dynamic Privacy-Aware Collaborative Schemes for Average Computation: A Multi-Time Reporting Case. IEEE Transactions on Information Forensics and Security, 2021, 16, 3843-3858.	4.5	8
83	Distributed Randomized Algorithms for PageRank Computation: Recent Advances. Systems and Control: Foundations and Applications, 2018, , 419-447.	0.1	8
84	Distributed PageRank computation with link failures. , 2009, , .		7
85	Resilient Distributed Energy Management for Systems of Interconnected Microgrids. , 2018, , .		7
86	An Event-Triggered Approach to Quantized Resilient Consensus. , 2019, , .		7
87	A Resilient Synchronization Protocol for Pulse-Coupled Oscillators over Robust Networks. , 2020, , .		7
88	Scenario-based defense mechanism against vulnerabilities in Lagrange-based DMPC. Control Engineering Practice, 2021, 114, 104879.	3.2	7
89	Resilient self/event-triggered consensus based on ternary control. Nonlinear Analysis: Hybrid Systems, 2021, 42, 101091.	2.1	7
90	Data rate limitations for stabilization of uncertain systems over lossy channels. , 2012, , .		6

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91	Control over Additive White Gaussian Noise Channels: Bode-Type Integrals, Channel Blurredness, Negentropy Rate, and Beyond. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 3770-3775.	0.4	6
92	On the state estimation problem for discrete ensembles from discrete-time output snapshots. , 2015, , .		6
93	Differential Privacy-preserving Distributed Machine Learning. , 2019, , .		6
94	Sensitivity analysis of networked control systems via an information theoretic approach. , 2008, , .		5
95	Event-based distributed clock synchronization for wireless sensor networks. , 2013, , .		5
96	Resilient consensus of double-integrator multi-agent networks with communication delays. , 2015, , .		5
97	A Markov Chain Monte Carlo Approach to Nonlinear Parametric System Identification. IEEE Transactions on Automatic Control, 2015, 60, 2542-2546.	3.6	5
98	Resilient randomized quantized consensus with delayed information. , 2016, , .		5
99	Generic Variance Bounds on Estimation and Prediction Errors in Time Series Analysis: An Entropy Perspective. , 2019, , .		5
100	A Distributed Model Predictive Scheme for Resilient Consensus with Input Constraints. , 2019, , .		5
101	Randomized Transmissions for Networked Control Under High-Frequency Jamming. IFAC-PapersOnLine, 2019, 52, 375-380.	0.5	5
102	Resilient Consensus with Distributed Fault Detection. IFAC-PapersOnLine, 2019, 52, 285-290.	0.5	5
103	Stabilization of Nonlinear Networked Control Systems under Denial-of-Service Attacks: A Linearization Approach. , 2019, , .		5
104	Networked Control of Uncertain Systems over Data Rate Limited and Lossy Channels. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2013, E96.A, 853-860.	0.2	5
105	Dynamic Event-triggered Consensus Control of Discrete-time Linear Multi-agent Systems. IFAC-PapersOnLine, 2021, 54, 123-128.	0.5	5
106	Optimal design of cyclic pursuit weights in hierarchical multi-agent systems. , 2010, , .		4
107	A Fault Tolerant Protocol for Clock Synchronization in Sensor Networks. IFAC-PapersOnLine, 2016, 49, 181-186.	0.5	4
108	Node Aggregation for Enhancing PageRank. IEEE Access, 2017, 5, 19799-19811.	2.6	4

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109	An Integral Characterization of Optimal Error Covariance by Kalman Filtering. , 2018, , .		4
110	Containability With Event-Based Sampling for Scalar Systems With Time-Varying Delay and Uncertainty. , 2018, 2, 725-730.		4
111	Networked control of uncertain systems via the coarsest quantization and lossy communication. Systems and Control Letters, 2018, 119, 57-63.	1.3	4
112	Resilient Self/Event-Triggered Consensus Based on Ternary Control. , 2020, , .		4
113	Dynamic Quantized Leader-follower Consensus under Denial-of-Service Attacks. , 2020, , .		4
114	Dynamic Resilient Network Games Considering Connectivity. , 2020, , .		4
115	Resilient Consensus against Mobile Malicious Agents. IFAC-PapersOnLine, 2020, 53, 3409-3414.	0.5	4
116	A Tutorial on Security and Privacy Challenges in CPS. Lecture Notes in Control and Information Sciences, 2022, , 121-146.	0.6	4
117	Resilient quantized control under Denial-of-Service: Variable bit rate quantization. Automatica, 2022, 141, 110302.	3.0	4
118	Las Vegas randomized algorithms in distributed consensus problems. , 2008, , .		3
119	Distributed randomized pagerank algorithms based on web aggregation over unreliable channels. , 2010, , .		3
120	Optimal design of cyclic pursuit weights in hierarchical multi-agent systems. International Journal of Control, 2011, 84, 1115-1125.	1.2	3
121	Robust estimation for enhancing the cyber security of power state estimation. , 2015, , .		3
122	Resilient clock synchronization over unreliable channels in WSNs. , 2017, , .		3
123	Intrinsic limits of power reduction in MIMO networked control systems. , 2017, , .		3
124	State-Dependent Jamming Interference in Networked Stabilization. , 2018, , .		3
125	A Resilient Approach for Distributed MPC-Based Economic Dispatch in Interconnected Microgrids. , 2019, , .		3
126	DoS-Aware Quantized Control of Nonlinear Systems via Linearization. IFAC-PapersOnLine, 2020, 53, 3054-3059.	0.5	3

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127	Enhancing Security for Voltage Control of Distribution Systems Under Data Falsification Attacks. , 2019, , .		3
128	Quantized Average Consensus on Gossip Digraphs with Reduced Computation. SICE Journal of Control Measurement and System Integration, 2011, 4, 236-242.	0.4	3
129	Dynamic Resilient Graph Games for State-Dependent Jamming Attacks Analysis on Multi-Agent Systems. IFAC-PapersOnLine, 2020, 53, 3421-3426.	0.5	3
130	Actuation attacks on constrained linear systems: a set-theoretic analysis. IFAC-PapersOnLine, 2020, 53, 6963-6968.	0.5	3
131	Average Consensus in Discrete-Time Multi-Agent Systems with Distributed Event-Triggered Control. , 2021, , .		3
132	Effects of Jamming Attacks on Wireless Networked Control Systems Under Disturbance. IEEE Transactions on Automatic Control, 2023, 68, 1223-1230.	3.6	3
133	Utilizing multiple unreliable channels in remote stabilization of linear systems. Proceedings of the American Control Conference, 2007, , .	0.0	2
134	A new approach for aggregated PageRank computation via distributed randomized algorithms. , 2011, , .		2
135	A Frequency-Domain Characterization of Optimal Error Covariance for the Kalman-Bucy Filter. , 2018, , .		2
136	A Distributed Model Predictive Control Scheme with Robustness Against Noncompliant Controllers. , 2018, , .		2
137	Power Gain Bounds of MIMO Networked Control Systems: An Entropy Perspective. IEEE Transactions on Automatic Control, 2019, 64, 1170-1177.	3.6	2
138	Cyber Security for Power System State Estimation. Power Electronics and Power Systems, 2019, , 241-256.	0.6	2
139	Suppressing the endemic equilibrium in SIS epidemics: A state dependent approach. IFAC-PapersOnLine, 2021, 54, 163-168.	0.5	2
140	Resilient Quantized Control under Denial-of-Service with the Application of Variable Bit Rate Quantization. , 2021, , .		2
141	Quantized state feedback stabilization of nonlinear systems under Denial-of-Service. Automatica, 2022, 139, 110180.	3.0	2
142	Rolling horizon games of resilient networks with non-uniform horizons. European Journal of Control, 2022, 68, 100693.	1.6	2
143	Feedback control through networks with packet loss: mixed H ₂ /H _∞ approach and application to a teleoperating system. , 2007, , .		1
144	Fragile link structure in PageRank computation. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
145	Stabilization of uncertain systems using quantized and lossy observations and uncertain control inputs. , 2014, , .		1
146	Random and Malicious Packet Transmission Failures on Multi-Hop Channels in Networked Control Systems**This work was supported in part by Japan Science and Technology Agency under the CREST program.. IFAC-PapersOnLine, 2016, 49, 49-54.	0.5	1
147	Networked Control of Uncertain Systems via the Coarsest Quantization and Lossy Communication. IFAC-PapersOnLine, 2017, 50, 6391-6396.	0.5	1
148	Vulnerabilities in Lagrange-Based DMPC in the Context of Cyber-Security. , 2017, , .		1
149	PageRank Computation via Web Aggregation in Distributed Randomized Algorithms. , 2019, , .		1
150	Quantized State Feedback Stabilization of Nonlinear Systems under Denial-of-Service. IFAC-PapersOnLine, 2021, 54, 323-328.	0.5	1
151	Towards the Coarsest Quantized Controller under Denial-of-Service Attacks. IFAC-PapersOnLine, 2020, 53, 3496-3501.	0.5	1
152	Dynamic Privacy-preserving Collaborative Schemes for Average Computation. IFAC-PapersOnLine, 2020, 53, 2963-2968.	0.5	1
153	Resilient Synchronization of Pulse-Coupled Oscillators under Stealthy Attacks. IFAC-PapersOnLine, 2021, 54, 424-429.	0.5	1
154	Cluster Formation in Multiagent Consensus via Dynamic Resilient Graph Games. , 2021, , .		1
155	Resilient Control of Uncertain Networked Systems under DoS Attacks. , 2021, , .		1
156	Remote control of sampled-data systems under constrained communication. , 2006, , .		0
157	Adaptive Control for Linear Uncertain Discrete-Time Systems with Quantization and Deadzone. Proceedings of the American Control Conference, 2007, , .	0.0	0
158	Event-based Containability for Linear Systems with Arbitrarily Small Bit Rates. IFAC-PapersOnLine, 2019, 52, 31-36.	0.5	0
159	Cyber Security for Voltage Control of Distribution Systems Under Data Falsification Attacks. Power Electronics and Power Systems, 2020, , 145-165.	0.6	0
160	Resiliency against malicious agents in maximum-based consensus. SICE Journal of Control Measurement and System Integration, 2021, 14, 279-290.	0.4	0
161	Rolling Horizon Games for Cluster Formation of Resilient Multiagent Systems. , 2021, , .		0