

# Izumi Masubuchi

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

1,388  
citations

933410

10  
h-index

377849

34  
g-index

80  
all docs

80  
docs citations

80  
times ranked

524  
citing authors

#	ARTICLE	IF	CITATIONS
1	H $\hat{a}$ z control for descriptor systems: A matrix inequalities approach. Automatica, 1997, 33, 669-673.	5.0	616
2	LMI-based controller synthesis: a unified formulation and solution. International Journal of Robust and Nonlinear Control, 1998, 8, 669-686.	3.7	271
3	Output feedback controller synthesis for descriptor systems satisfying closed-loop dissipativity. Automatica, 2007, 43, 339-345.	5.0	80
4	Dissipativity inequalities for continuous-time descriptor systems with applications to synthesis of control gains. Systems and Control Letters, 2006, 55, 158-164.	2.3	79
5	Gain-scheduled controller design based on descriptor representation of LPV systems: application to flight vehicle control. , 2004, , .		55
6	Synthesis of output feedback gain-scheduling controllers based on descriptor LPV system representation. , 0, , .		42
7	Multiagent Consensus With Noisy Communication: Stopping Rules Based on Network Graphs. IEEE Transactions on Control of Network Systems, 2016, 3, 358-365.	3.7	26
8	Analysis of Positive Invariance and Almost Regional Attraction Via Density Functions With Converse Results. IEEE Transactions on Automatic Control, 2007, 52, 1329-1333.	5.7	16
9	Distributed Multi-Agent Optimization Based on an Exact Penalty Method with Equality and Inequality Constraints. SICE Journal of Control Measurement and System Integration, 2016, 9, 179-186.	0.7	15
10	Gain-scheduled control via filtered scheduling parameters. Automatica, 2011, 47, 1821-1826.	5.0	13
11	Multi-agent consensus for distributed power dispatch with load balancing. Asian Journal of Control, 2021, 23, 611-619.	3.0	12
12	Bounded Confidence Gossip Algorithms for Opinion Formation and Data Clustering. IEEE Transactions on Automatic Control, 2019, 64, 1150-1155.	5.7	11
13	Gain-Scheduled Controller Synthesis Based on New LMIs for Dissipativity of Descriptor LPV Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 9993-9998.	0.4	10
14	PID gain tuning based on falsification using bandpass filters. , 2006, , .		9
15	Gain-scheduled control synthesis by using filtered scheduling parameters. , 2009, , .		9
16	A recursive algorithm of exactness verification of relaxations for robust SDPs. Systems and Control Letters, 2009, 58, 592-601.	2.3	9
17	Analysis of almost-everywhere stability of a class of discontinuous systems via Lyapunov densities. , 2016, , .		8
18	Lyapunov density for almost attraction of nonlinear time-varying systems: A condition without assuming local stability. , 2017, , .		6

#	ARTICLE	IF	CITATIONS
19	Opinion Formation over Signed Gossip Networks. SICE Journal of Control Measurement and System Integration, 2017, 10, 266-273.	0.7	6
20	A Lyapunov-density criterion for almost everywhere stability of a class of Lipschitz continuous and almost everywhere nonlinear systems. International Journal of Control, 2014, 87, 422-431.	1.9	5
21	Randomized solution for robust optimal power flow. , 2014, , .		5
22	Dissipativity Inequality for Continuous-time Descriptor Systems: A Realization-independent Condition. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 405-408.	0.4	4
23	Gain scheduled reference governor and its application to long seek control of hard disk drives. , 2012, , .		4
24	On the implementation of reference governor. , 2014, , .		4
25	Time Averaging Algorithms with Stopping Rules for Multi-Agent Consensus with Noisy Measurements. Asian Journal of Control, 2016, 18, 1969-1982.	3.0	4
26	Stochastic Consensus over Time-Varying Networks of Linear Symmetric Agents. Transactions of the Institute of Systems Control and Information Engineers, 2018, 31, 28-35.	0.1	4
27	On a New Class of Structurally Balanced Graphs for Scaled Group Consensus. , 2019, , .		4
28	An exact solution to parameter-dependent convex differential inequalities. , 1999, , .		4
29	Density Functions Characterizing Positive Invariance and Regional Almost Attraction with Converse Results. , 2006, , .		3
30	Stability and stabilization of discrete-time descriptor systems with several extensions. , 2013, , .		3
31	Multi-Agent Consensus on Noisy Networks with Antagonistic Interactions. Proceedings of the ISCIE International Symposium on Stochastic Systems Theory and Its Applications, 2015, 2015, 85-90.	0.2	3
32	Distributed constrained optimization protocol via an exact penalty method. , 2015, , .		3
33	A constrained tracking control algorithm for linear systems based on a spline-type parameter-dependent Lyapunov function. International Journal of Robust and Nonlinear Control, 2015, 25, 1877-1896.	3.7	3
34	Gain-scheduled Control via Switching of LTI Controllers and State Reset. Asian Journal of Control, 2016, 18, 1619-1629.	3.0	3
35	Almost-Everywhere Stability of Systems with a Piecewise-C2 Lipschitz Continuous Vector Field. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 10928-10933.	0.4	2
36	Long seek control of hard disk drives using reference governor: An improved result. , 2012, , .		2

#	ARTICLE	IF	CITATIONS
37	Multi-agent consensus with noisy communication via time averaging. , 2014, , .		2
38	Opinion formation under bounded confidence via gossip algorithms. , 2015, , .		2
39	Distributed Multi-Objective Optimization over Randomly Varying Unbalanced Networks * *This work was supported by JST CREST Grant Number JPMJCR15K2, Japan.. IFAC-PapersOnLine, 2017, 50, 2403-2408.	0.9	2
40	A Consensus Protocol over Noisy Two-Layered Networks with Cooperative and Antagonistic Interactions. Asian Journal of Control, 2018, 20, 548-557.	3.0	2
41	Privacy-Preserved Cell Zooming with Distributed Optimization in Green Networks. , 2019, , .		2
42	A stopping rule for multi-agent consensus with bounded noise in measurements. , 2020, , .		2
43	Lyapunov Density Criteria for Time-Varying and Periodically Time-Varying Nonlinear Systems with Converse Results. SIAM Journal on Control and Optimization, 2021, 59, 223-241.	2.1	2
44	Synthesis of Memory Gain-Scheduled Controllers for Discrete-Time LPV Systems. SICE Journal of Control Measurement and System Integration, 2020, 13, 249-255.	0.7	2
45	A08 A Design Method of an Active Front Steering Controller Using Measurements of Lateral Tire Forces. The Proceedings of the Symposium on the Motion and Vibration Control, 2009, 2009.11, 41-46.	0.0	2
46	Model Following Control for Systems with High-Frequency Resonant Terms and Unstable Zeros. Transactions of the Institute of Systems Control and Information Engineers, 2012, 25, 296-298.	0.1	2
47	Convergence Analysis of Stochastic Consensus over Noisy Networks of Linear Symmetric Agents. Proceedings of the ISCIE International Symposium on Stochastic Systems Theory and Its Applications, 2017, 2017, 186-189.	0.2	2
48	Synthesis of Output Feedback Controllers for Descriptor Systems Satisfying Closed-Loop Dissipativity. , 0, , .		1
49	Seek control of hard disk drives using reference governor under input saturation. , 2011, , .		1
50	Distributed optimization with equality and inequality constraints with delayed information of feasibility. , 2015, , .		1
51	Gossip algorithms for clustering problems. , 2015, , .		1
52	An Averaging Consensus Algorithm and Its Stopping Rule over Noisy Undirected Networks of MIMO Linear Symmetric Agents. Proceedings of the ISCIE International Symposium on Stochastic Systems Theory and Its Applications, 2018, 2018, 46-49.	0.2	1
53	&lt;i>H</i>&lt;sub>2</sub> &lt;/sub>Analysis of LTI Discrete-Time Systems via Conversion to Externally Positive Systems. Transactions of the Institute of Systems Control and Information Engineers, 2018, 31, 75-84.	0.1	1
54	Stability Analysis and Stabilization of Nonlinear Systems via Locally Defined Density Functions. SICE Journal of Control Measurement and System Integration, 2010, 3, 424-428.	0.7	1

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55	Realization-Independent Condition for Dissipativity of Descriptor Systems. Transactions of the Society of Instrument and Control Engineers, 2004, 40, 867-869.	0.2	1
56	Randomized Algorithms for Optimal Power Flow. Proceedings of the ISCIE International Symposium on Stochastic Systems Theory and Its Applications, 2014, 2014, 199-203.	0.2	1
57	A Stopping Rule for Multi-Agent Consensus over Unbalanced Noisy Networks. Proceedings of the ISCIE International Symposium on Stochastic Systems Theory and Its Applications, 2019, 2019, 117-120.	0.2	1
58	Cell Zooming With Masked Data for Off-Grid Small Cell Networks: Distributed Optimization Approach. IEEE Transactions on Control Systems Technology, 2022, 30, 1696-1710.	5.2	1
59	Scaled Group Consensus over Weakly Connected Structurally Balanced Graphs. IFAC-PapersOnLine, 2020, 53, 3037-3042.	0.9	1
60	Stochastic Consensus Algorithms over General Noisy Networks. SICE Journal of Control Measurement and System Integration, 2020, 13, 274-281.	0.7	1
61	MATRIX INEQUALITY CONDITIONS FOR DISSIPATIVITY OF CONTINUOUS-TIME DESCRIPTOR SYSTEMS AND ITS APPLICATION TO SYNTHESIS OF CONTROL GAINS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 272-277.	0.4	0
62	A Change-of-variables Method for Output Feedback Synthesis of Descriptor Systems Based on Realization-independent LMIs. Transactions of the Society of Instrument and Control Engineers, 2007, 43, 1151-1155.	0.2	0
63	Scheduled controller synthesis via Lyapunov matrices that depend on the filtered scheduling parameter. , 2009, , .		0
64	Exactness verification of upper-bound relaxations derived via parameter-dependent multipliers for rational uncertainty blocks. , 2010, , .		0
65	Convergence time evaluation of a gossip algorithm over signed graphs. , 2015, , .		0
66	Control of a servo press using distributed reference governors. , 2015, , .		0
67	Notice of Removal Gain-scheduled control of attitude of a satellite: Synthesis via G-scaling. , 2015, , .		0
68	On transient responses of an ADMM-based distributed multi-agent optimization protocol. , 2017, , .		0
69	Exponential convergence analysis of nonlinear systems via Lyapunov densities. , 2017, , .		0
70	Consensus-based rendezvous control of double integrators via binary relative positions and velocity feedback. IMA Journal of Mathematical Control and Information, 2018, 35, 1371-1389.	1.7	0
71	Stochastic Consensus over Multi-Channel Networks of MIMO Linear Symmetric Agents. Transactions of the Institute of Systems Control and Information Engineers, 2019, 32, 55-62.	0.1	0
72	A Time Averaging Algorithm for Load Balancing in Distributed Power Dispatch. , 2019, , .		0

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73	Stabilization of Implicit Systems via Interconnection. Transactions of the Society of Instrument and Control Engineers, 2003, 39, 544-551.	0.2	0
74	Gain-Scheduling Controller Synthesis Based on Descriptor Representations. Transactions of the Society of Instrument and Control Engineers, 2005, 41, 53-60.	0.2	0
75	803 Analysis of local stability for nolinear systems via a dual of Lyapunov Theorem. The Proceedings of Conference of Chugoku-Shikoku Branch, 2006, 2006.44, 303-304.	0.0	0
76	805 Multiobjective Control System Design Based on Q-Parameterization of Controllers. The Proceedings of Conference of Chugoku-Shikoku Branch, 2006, 2006.44, 307-308.	0.0	0
77	Stability Analysis of Hybrid Automata with Set-Valued Vector Fields Using Sums of Squares. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2006, E89-A, 3185-3191.	0.3	0
78	On Use of Filtered Parameters in Gain-Scheduled Control. Transactions of the Society of Instrument and Control Engineers, 2009, 45, 469-475.	0.2	0
79	Multi-Agent Based Load Balancing Dispatch for Power Systems with Renewable Energy. Proceedings of the ISCIE International Symposium on Stochastic Systems Theory and Its Applications, 2020, 2020, 13-16.	0.2	0
80	Distributed Multi-Agent Optimization Protocol over Energy Management Networks. , 2020, , 279-308.		0