

Izumi Masubuchi

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.

66

papers

931

citations

9

h-index

30

g-index

80

ext. papers

1,225

ext. citations

1.7

avg, IF

4.11

L-index

#	Paper	IF	Citations
66	H ∞ control for descriptor systems: A matrix inequalities approach. <i>Automatica</i> , 1997 , 33, 669-673	5.7	390
65	LMI-based controller synthesis: A unified formulation and solution. <i>International Journal of Robust and Nonlinear Control</i> , 1998 , 8, 669-686	3.6	194
64	Dissipativity inequalities for continuous-time descriptor systems with applications to synthesis of control gains. <i>Systems and Control Letters</i> , 2006 , 55, 158-164	2.4	57
63	Output feedback controller synthesis for descriptor systems satisfying closed-loop dissipativity. <i>Automatica</i> , 2007 , 43, 339-345	5.7	53
62	Gain-scheduled controller design based on descriptor representation of LPV systems: application to flight vehicle control 2004 ,		41
61	Synthesis of output feedback gain-scheduling controllers based on descriptor LPV system representation		26
60	. <i>IEEE Transactions on Control of Network Systems</i> , 2016 , 3, 358-365	4	22
59	Analysis of Positive Invariance and Almost Regional Attraction Via Density Functions With Converse Results. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 1329-1333	5.9	12
58	Distributed Multi-Agent Optimization Based on an Exact Penalty Method with Equality and Inequality Constraints. <i>SICE Journal of Control Measurement and System Integration</i> , 2016 , 9, 179-186	0.3	11
57	Gain-scheduled control synthesis by using filtered scheduling parameters 2009 ,		9
56	. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 1150-1155	5.9	8
55	Gain-scheduled control via filtered scheduling parameters. <i>Automatica</i> , 2011 , 47, 1821-1826	5.7	8
54	A recursive algorithm of exactness verification of relaxations for robust SDPs. <i>Systems and Control Letters</i> , 2009 , 58, 592-601	2.4	7
53	Gain-Scheduled Controller Synthesis Based on New LMIs for Dissipativity of Descriptor LPV Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 9993-9998		7
52	Opinion Formation over Signed Gossip Networks. <i>SICE Journal of Control Measurement and System Integration</i> , 2017 , 10, 266-273	0.3	6
51	PID gain tuning based on falsification using bandpass filters 2006 ,		6
50	Multi-agent consensus for distributed power dispatch with load balancing. <i>Asian Journal of Control</i> , 2021 , 23, 611-619	1.7	6

49	Analysis of almost-everywhere stability of a class of discontinuous systems via Lyapunov densities 2016,		5
48	Randomized solution for robust optimal power flow 2014,		4
47	Lyapunov density for almost attraction of nonlinear time-varying systems: A condition without assuming local stability 2017,		4
46	A constrained tracking control algorithm for linear systems based on a spline-type parameter-dependent Lyapunov function. <i>International Journal of Robust and Nonlinear Control</i> , 2015 , 25, 1877-1896	3.6	3
45	A Lyapunov-density criterion for almost everywhere stability of a class of Lipschitz continuous and almost everywhere C1 nonlinear systems. <i>International Journal of Control</i> , 2014 , 87, 422-431	1.5	3
44	Multi-Agent Consensus on Noisy Networks with Antagonistic Interactions 2015 , 2015, 85-90		3
43	Density Functions Characterizing Positive Invariance and Regional Almost Attraction with Converse Results 2006,		3
42	An exact solution to parameter-dependent convex differential inequalities 1999,		3
41	Stochastic Consensus over Time-Varying Networks of Linear Symmetric Agents. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , 2018 , 31, 28-35	0.1	3
40	A Consensus Protocol over Noisy Two-Layered Networks with Cooperative and Antagonistic Interactions. <i>Asian Journal of Control</i> , 2018 , 20, 548-557	1.7	2
39	Distributed constrained optimization protocol via an exact penalty method 2015,		2
38	Multi-agent consensus with noisy communication via time averaging 2014,		2
37	On the implementation of reference governor 2014,		2
36	Long seek control of hard disk drives using reference governor: An improved result 2012,		2
35	Dissipativity Inequality for Continuous-time Descriptor Systems: A Realization-independent Condition. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2004 , 37, 405-408		2
34	Convergence Analysis of Stochastic Consensus over Noisy Networks of Linear Symmetric Agents 2017 , 2017, 186-189		2
33	Time Averaging Algorithms with Stopping Rules for Multi-Agent Consensus with Noisy Measurements. <i>Asian Journal of Control</i> , 2016 , 18, 1969-1982	1.7	2
32	On a New Class of Structurally Balanced Graphs for Scaled Group Consensus 2019,		2

31	Privacy-Preserved Cell Zooming with Distributed Optimization in Green Networks 2019 ,		2
30	A stopping rule for multi-agent consensus with bounded noise in measurements 2020 ,		1
29	H2 Analysis of LTI Discrete-Time Systems via Conversion to Externally Positive Systems. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , 2018 , 31, 75-84	0.1	1
28	Distributed Multi-Objective Optimization over Randomly Varying Unbalanced Networks. <i>IFAC-PapersOnLine</i> , 2017 , 50, 2403-2408	0.7	1
27	Distributed optimization with equality and inequality constraints with delayed information of feasibility 2015 ,		1
26	Stability and stabilization of discrete-time descriptor systems with several extensions 2013 ,		1
25	Almost-Everywhere Stability of Systems with a Piecewise-C2 Lipschitz Continuous Vector Field. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 10928-10933		1
24	Synthesis of Memory Gain-Scheduled Controllers for Discrete-Time LPV Systems. <i>SICE Journal of Control Measurement and System Integration</i> , 2020 , 13, 249-255	0.3	1
23	Stability Analysis and Stabilization of Nonlinear Systems via Locally Defined Density Functions. <i>SICE Journal of Control Measurement and System Integration</i> , 2010 , 3, 424-428	0.3	1
22	A Stopping Rule for Multi-Agent Consensus over Unbalanced Noisy Networks 2019 , 2019, 117-120		1
21	Randomized Algorithms for Optimal Power Flow 2014 , 2014, 199-203		1
20	A08 A Design Method of an Active Front Steering Controller Using Measurements of Lateral Tire Forces. <i>The Proceedings of the Symposium on the Motion and Vibration Control</i> , 2009 , 2009.11, 41-46	0	1
19	Gain-Scheduled Control via Switching of LTI Controllers and State Reset. <i>Asian Journal of Control</i> , 2016 , 18, 1619-1629	1.7	1
18	An Averaging Consensus Algorithm and Its Stopping Rule over Noisy Undirected Networks of MIMO Linear Symmetric Agents 2018 , 2018, 46-49		1
17	Scaled Group Consensus over Weakly Connected Structurally Balanced Graphs. <i>IFAC-PapersOnLine</i> , 2020 , 53, 3037-3042	0.7	0
16	Model Following Control for Systems with High-Frequency Resonant Terms and Unstable Zeros. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , 2012 , 25, 296-298	0.1	0
15	Stochastic Consensus over Multi-Channel Networks of MIMO Linear Symmetric Agents. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , 2019 , 32, 55-62	0.1	
14	Consensus-based rendezvous control of double integrators via binary relative positions and velocity feedback. <i>IMA Journal of Mathematical Control and Information</i> , 2018 , 35, 1371-1389	1.1	

- 13 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 0.1
- 12 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
- 11 Stochastic Consensus Algorithms over General Noisy Networks. *SICE Journal of Control Measurement and System Integration*, **2020**, 13, 274-281 0.3
- 10 Stabilization of Implicit Systems via Interconnection. *Transactions of the Society of Instrument and Control Engineers*, **2003**, 39, 544-551 0.1
- 9 Realization-Independent Condition for Dissipativity of Descriptor Systems. *Transactions of the Society of Instrument and Control Engineers*, **2004**, 40, 867-869 0.1
- 8 Gain-Scheduling Controller Synthesis Based on Descriptor Representations. *Transactions of the Society of Instrument and Control Engineers*, **2005**, 41, 53-60 0.1
- 7 803 Analysis of local stability for nonlinear systems via a dual of Lyapunov Theorem. *The Proceedings of Conference of Chugoku-Shikoku Branch*, **2006**, 2006.44, 303-304 0
- 6 805 Multiobjective Control System Design Based on Q-Parameterization of Controllers. *The Proceedings of Conference of Chugoku-Shikoku Branch*, **2006**, 2006.44, 307-308 0
- 5 Multi-Agent Based Load Balancing Dispatch for Power Systems with Renewable Energy **2020**, 2020, 13-16
- 4 Cell Zooming With Masked Data for Off-Grid Small Cell Networks: Distributed Optimization Approach. *IEEE Transactions on Control Systems Technology*, **2021**, 1-15 4.8
- 3 Distributed Multi-Agent Optimization Protocol over Energy Management Networks **2020**, 279-308
- 2 On Use of Filtered Parameters in Gain-Scheduled Control. *Transactions of the Society of Instrument and Control Engineers*, **2009**, 45, 469-475 0.1
- 1 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 1.9