

Izumi Masubuchi

List of Publications by Year in Descending Order

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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 | Cell Zooming With Masked Data for Off-Grid Small Cell Networks: Distributed Optimization Approach. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-15 | 4.8 | |
| 65 | Multi-agent consensus for distributed power dispatch with load balancing. <i>Asian Journal of Control</i> , 2021 , 23, 611-619 | 1.7 | 6 |
| 64 | Lyapunov Density Criteria for Time-Varying and Periodically Time-Varying Nonlinear Systems with Converse Results. <i>SIAM Journal on Control and Optimization</i> , 2021 , 59, 223-241 | 1.9 | |
| 63 | A stopping rule for multi-agent consensus with bounded noise in measurements 2020 , | | 1 |
| 62 | Scaled Group Consensus over Weakly Connected Structurally Balanced Graphs. <i>IFAC-PapersOnLine</i> , 2020 , 53, 3037-3042 | 0.7 | 0 |
| 61 | Stochastic Consensus Algorithms over General Noisy Networks. <i>SICE Journal of Control Measurement and System Integration</i> , 2020 , 13, 274-281 | 0.3 | |
| 60 | 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 |
| 59 | Multi-Agent Based Load Balancing Dispatch for Power Systems with Renewable Energy 2020 , 2020, 13-16 | | |
| 58 | Distributed Multi-Agent Optimization Protocol over Energy Management Networks 2020 , 279-308 | | |
| 57 | 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 | |
| 56 | . <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 1150-1155 | 5.9 | 8 |
| 55 | A Stopping Rule for Multi-Agent Consensus over Unbalanced Noisy Networks 2019 , 2019, 117-120 | | 1 |
| 54 | On a New Class of Structurally Balanced Graphs for Scaled Group Consensus 2019 , | | 2 |
| 53 | Privacy-Preserved Cell Zooming with Distributed Optimization in Green Networks 2019 , | | 2 |
| 52 | 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 |
| 51 | 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 | |
| 50 | 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 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 49 | 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 |
| 48 | An Averaging Consensus Algorithm and Its Stopping Rule over Noisy Undirected Networks of MIMO Linear Symmetric Agents 2018 , 2018, 46-49 | | 1 |
| 47 | Distributed Multi-Objective Optimization over Randomly Varying Unbalanced Networks. <i>IFAC-PapersOnLine</i> , 2017 , 50, 2403-2408 | 0.7 | 1 |
| 46 | Lyapunov density for almost attraction of nonlinear time-varying systems: A condition without assuming local stability 2017 , | | 4 |
| 45 | Opinion Formation over Signed Gossip Networks. <i>SICE Journal of Control Measurement and System Integration</i> , 2017 , 10, 266-273 | 0.3 | 6 |
| 44 | Convergence Analysis of Stochastic Consensus over Noisy Networks of Linear Symmetric Agents 2017 , 2017, 186-189 | | 2 |
| 43 | . <i>IEEE Transactions on Control of Network Systems</i> , 2016 , 3, 358-365 | 4 | 22 |
| 42 | 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 |
| 41 | Analysis of almost-everywhere stability of a class of discontinuous systems via Lyapunov densities 2016 , | | 5 |
| 40 | Gain-Scheduled Control via Switching of LTI Controllers and State Reset. <i>Asian Journal of Control</i> , 2016 , 18, 1619-1629 | 1.7 | 1 |
| 39 | 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 |
| 38 | 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 |
| 37 | Multi-Agent Consensus on Noisy Networks with Antagonistic Interactions 2015 , 2015, 85-90 | | 3 |
| 36 | Distributed optimization with equality and inequality constraints with delayed information of feasibility 2015 , | | 1 |
| 35 | Distributed constrained optimization protocol via an exact penalty method 2015 , | | 2 |
| 34 | 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 |
| 33 | Randomized solution for robust optimal power flow 2014 , | | 4 |
| 32 | Multi-agent consensus with noisy communication via time averaging 2014 , | | 2 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 31 | On the implementation of reference governor 2014 , | | 2 |
| 30 | Randomized Algorithms for Optimal Power Flow 2014 , 2014, 199-203 | | 1 |
| 29 | Stability and stabilization of discrete-time descriptor systems with several extensions 2013 , | | 1 |
| 28 | Long seek control of hard disk drives using reference governor: An improved result 2012 , | | 2 |
| 27 | 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 |
| 26 | 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 |
| 25 | Gain-scheduled control via filtered scheduling parameters. <i>Automatica</i> , 2011 , 47, 1821-1826 | 5.7 | 8 |
| 24 | 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 |
| 23 | Gain-scheduled control synthesis by using filtered scheduling parameters 2009 , | | 9 |
| 22 | A recursive algorithm of exactness verification of relaxations for robust SDPs. <i>Systems and Control Letters</i> , 2009 , 58, 592-601 | 2.4 | 7 |
| 21 | 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 |
| 20 | On Use of Filtered Parameters in Gain-Scheduled Control. <i>Transactions of the Society of Instrument and Control Engineers</i> , 2009 , 45, 469-475 | 0.1 | |
| 19 | 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 |
| 18 | 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 |
| 17 | A Change-of-variables Method for Output Feedback Synthesis of Descriptor Systems Based on Realization-independent LMIs. <i>Transactions of the Society of Instrument and Control Engineers</i> , 2007 , 43, 1151-1155 | 0.1 | |
| 16 | Output feedback controller synthesis for descriptor systems satisfying closed-loop dissipativity. <i>Automatica</i> , 2007 , 43, 339-345 | 5.7 | 53 |
| 15 | PID gain tuning based on falsification using bandpass filters 2006 , | | 6 |
| 14 | Density Functions Characterizing Positive Invariance and Regional Almost Attraction with Converse Results 2006 , | | 3 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| 13 | 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 |
| 12 | 803 Analysis of local stability for nonlinear systems via a dual of Lyapunov Theorem. <i>The Proceedings of Conference of Chugoku-Shikoku Branch</i> , 2006 , 2006.44, 303-304 | 0 | |
| 11 | 805 Multiobjective Control System Design Based on Q-Parameterization of Controllers. <i>The Proceedings of Conference of Chugoku-Shikoku Branch</i> , 2006 , 2006.44, 307-308 | 0 | |
| 10 | MATRIX INEQUALITY CONDITIONS FOR DISSIPATIVITY OF CONTINUOUS-TIME DESCRIPTOR SYSTEMS AND ITS APPLICATION TO SYNTHESIS OF CONTROL GAINS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 272-277 | | |
| 9 | Gain-Scheduling Controller Synthesis Based on Descriptor Representations. <i>Transactions of the Society of Instrument and Control Engineers</i> , 2005 , 41, 53-60 | 0.1 | |
| 8 | Gain-scheduled controller design based on descriptor representation of LPV systems: application to flight vehicle control 2004 , | | 41 |
| 7 | 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 |
| 6 | Realization-Independent Condition for Dissipativity of Descriptor Systems. <i>Transactions of the Society of Instrument and Control Engineers</i> , 2004 , 40, 867-869 | 0.1 | |
| 5 | Stabilization of Implicit Systems via Interconnection. <i>Transactions of the Society of Instrument and Control Engineers</i> , 2003 , 39, 544-551 | 0.1 | |
| 4 | An exact solution to parameter-dependent convex differential inequalities 1999 , | | 3 |
| 3 | 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 |
| 2 | H _∞ control for descriptor systems: A matrix inequalities approach. <i>Automatica</i> , 1997 , 33, 669-673 | 5.7 | 390 |
| 1 | Synthesis of output feedback gain-scheduling controllers based on descriptor LPV system representation | | 26 |