

Yasuaki Oishi

List of Publications by Year in descending order

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34
papers

404
citations

1307594

7
h-index

940533

16
g-index

34
all docs

34
docs citations

34
times ranked

265
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability and stabilization of aperiodic sampled-data control systems using robust linear matrix inequalities. Automatica, 2010, 46, 1327-1333.	5.0	138
2	Polynomial-time algorithms for probabilistic solutions of parameter-dependent linear matrix inequalities. Automatica, 2007, 43, 538-545.	5.0	60
3	Mixed Deterministic/Randomized Methods for Fixed Order Controller Design. IEEE Transactions on Automatic Control, 2008, 53, 2033-2047.	5.7	35
4	Passivity degradation under the discretization with the zero-order hold and the ideal sampler. , 2010, , .		31
5	Guaranteed cost regulator design: A probabilistic solution and a randomized algorithm. Automatica, 2007, 43, 317-324.	5.0	27
6	Stability and stabilization of aperiodic sampled-data control systems: An approach using robust linear matrix inequalities. , 2009, , .		27
7	Computational complexity of randomized algorithms for solving parameter-dependent linear matrix inequalities. Automatica, 2003, 39, 2149-2156.	5.0	20
8	A bound of conservativeness in sampled-data robust stabilization and its dependence on sampling periods. Systems and Control Letters, 1997, 32, 11-19.	2.3	11
9	A Region-Dividing Technique for Constructing the Sum-of-Squares Approximations to Robust Semidefinite Programs. IEEE Transactions on Automatic Control, 2009, 54, 1029-1035.	5.7	7
10	Computation-oriented expression of a non-conservative condition for robust stability of sampled-data systems. International Journal of Control, 1995, 62, 1085-1104.	1.9	6
11	Probabilistic Design of a Robust Controller Using a Parameter-Dependent Lyapunov Function. , 2006, , 303-316.		6
12	Exploiting Sparsity in the Matrix-Dilation Approach to Robust Semidefinite Programming. Proceedings of the American Control Conference, 2007, , .	0.0	6
13	A Matrix-Dilation Approach to Robust Semidefinite Programming and Its Error Bound. SICE Journal of Control Measurement and System Integration, 2010, 3, 372-380.	0.7	5
14	Analysis and Synthesis of Control Systems Rationally Dependent on Uncertain Parameters. Transactions of the Society of Instrument and Control Engineers, 2005, 41, 314-321.	0.2	5
15	EXPLOITING SPARSITY IN THE MATRIX-DILATION APPROACH TO ROBUST SEMIDEFINITE PROGRAMMING. Journal of the Operations Research Society of Japan, 2009, 52, 321-338.	0.2	4
16	Simplified approaches to polynomial design of model predictive controllers. , 2013, , .		4
17	Asymptotic exactness of parameter-dependent lyapunov functions: An error bound and exactness verification. , 2007, , .		3
18	Realization of Sparse Control Using the Model Predictive Control Scheme. Transactions of the Society of Instrument and Control Engineers, 2020, 56, 74-80.	0.2	3

#	ARTICLE	IF	CITATIONS
19	A region-dividing technique for constructing the sum-of-squares approximations to robust semidefinite programs. , 2007, , .		2
20	Gain-scheduled Control of a Crane Using the Sum-of-squares Technique. Transactions of the Society of Instrument and Control Engineers, 2009, 45, 208-214.	0.2	2
21	Probabilistic model-set identification not assuming plant linearity. International Journal of Robust and Nonlinear Control, 2004, 14, 971-981.	3.7	1
22	Use of a Matrix Inequality Technique for Avoiding Undesirable Bifurcation. Mathematics for Industry, 2015, , 33-40.	0.4	1
23	Robust Semidefinite Programming Problems with General Nonlinear Parameter Dependence: Application of the DC-Representations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 7939-7944.	0.4	0
24	Robust semidefinite programming problems with general nonlinear parameter dependence: Approaches using the DC-representations. Automatica, 2012, 48, 2937-2944.	5.0	0
25	Robustification of a Nonlinear Dynamical System with a Stability Index and a Matrix Inequality. SICE Journal of Control Measurement and System Integration, 2015, 8, 209-213.	0.7	0
26	Validated discretization and robust controller design for nonlinear sampled-data control. , 2015, , .		0
27	An Algorithm to Compute the Admissible Parameter Region of a Single-Layered Perceptron. Transactions of the Society of Instrument and Control Engineers, 2000, 36, 622-624.	0.2	0
28	On the Closed-Loop Structure of H^∞ Control Systems. Transactions of the Society of Instrument and Control Engineers, 2000, 36, 1093-1100.	0.2	0
29	Stabilizability and Stabilization of Stochastically Time-Varying Systems. Transactions of the Society of Instrument and Control Engineers, 2005, 41, 118-125.	0.2	0
30	Switching Control of a Constrained Nonlinear System:. Transactions of the Society of Instrument and Control Engineers, 2009, 45, 113-119.	0.2	0
31	Identification of a Model Set and Its Performance Analysis Based on Diameters. Transactions of the Society of Instrument and Control Engineers, 1998, 34, 1005-1012.	0.2	0
32	Design of a Dynamic Quantizer for a Nonlinear System. Transactions of the Society of Instrument and Control Engineers, 2016, 52, 53-59.	0.2	0
33	Maintenance of the Halo Orbit for a Spacecraft Using Discrete-time Optimal Control. Transactions of the Society of Instrument and Control Engineers, 2018, 54, 247-252.	0.2	0
34	Nonlinear Optimal Tracking Control for a Periodic Reference Signal. Transactions of the Society of Instrument and Control Engineers, 2020, 56, 243-248.	0.2	0