Noboru Sebe

List of Publications by Year
in descending order

56 papers	221 citations	1478505 6 h-index	1199594 12 g-index
56 all docs	56 docs citations	56 times ranked	55 citing authors

#	Article	IF	Citations
1	Development of Support Programs for Solving BMI Problems by Overbounding Approximation Method. , 2022, , .		0
2	Reduction of SISO H-infinity output feedback control problem. Linear Algebra and Its Applications, 2021, 610, 321-378.	0.9	0
3	Design of safe preventive maintenance procedure for control systems. , 2021, , .		0
4	Safety design of control systems according to international standards. , 2021, , .		1
5	Reduction of H âˆž state feedback control problems for the MIMO servo systems. Asian Journal of Control, 2020, 22, 1025-1037.	3.0	4
6	A safety assessment framework of control systems according to international standards. Asian Journal of Control, 2020, 22, 1741-1754.	3.0	3
7	Characterization of the dual problem of linear matrix inequality for H-infinity output feedback control problem via facial reduction. Mathematics of Control, Signals, and Systems, 2020, 32, 361-384.	2.3	1
8	On Gain-Scheduled State-Feedback Controller Synthesis With Quadratic Stability Condition. , 2020, 4, 662-667.		0
9	FAULT TOLERANT METHOD ON POSITION CASCADE CONTROL OF DC SERVO SYSTEM. Mechatronic Systems and Control, 2020, 48, .	0.2	0
10	Learning Koopman Operator under Dissipativity Constraints. IFAC-PapersOnLine, 2020, 53, 1169-1174.	0.9	6
11	Initial state design for suppressing undesirable effects of controller switches. IFAC-PapersOnLine, 2020, 53, 6452-6458.	0.9	0
12	Switching â„’₂ gain for evaluating the fluctuations in transient responses after an unpredictable system switch. International Journal of Control, 2019, 92, 1084-1093.	1.9	14
13	Application of facial reduction to H _{âˆž} state feedback control problem. International Journal of Control, 2019, 92, 303-316.	1.9	3
14	Initial state design for controller switches by using state-dependent switching L₂ gain. , 2019, , .		3
15	Control System Design for Safely Performing Preventive Maintenance. , 2018, , .		4
16	State-Dependent Switching <tex>$mathcal{L}_{2}$</tex> Gain for Analyzing the Fluctuations in Transient Responses After a System Switch. , 2018, , .		3
17	Sequential Convex Overbounding Approximation Method for Bilinear Matrix Inequality Problems. IFAC-PapersOnLine, 2018, 51, 102-109.	0.9	13
18	State assignment method for improvement of transient response caused by controller switching. IFAC-PapersOnLine, 2018, 51, 365-370.	0.9	2

#	Article	IF	Citations
19	Search Direction in Successive Linearization of Bilinear Matrix Inequality Problems. , 2018, , .		0
20	Strong feasibility of the dual problem of linear matrix inequality for H<inf>âˆž</inf> output feedback control problem. , 2018, , .		2
21	Support technology for safe preventive maintenance of control systems. IFAC-PapersOnLine, 2017, 50, 10369-10376.	0.9	5
22	A bias fault estimation of actuators and sensors by optimization with â„“<inf>0</inf> norm constraint. , 2017, , .		1
23	Effectiveness of higher order controllers for uncertain systems. , 2017, , .		0
24	Reduction of H<inf>âˆž</inf> state feedback control problems for the servo systems. , 2017, , .		2
25	Reduction of SDPs in H<inf>âˆž</inf> control of SISO systems and performance limitations analysis. , 2016, , .		3
26	Switching â„’<inf>2</inf> gain for analyzing the magnitude of a system switch. , 2016, , .		2
27	Dual LMI approach to H<inf>âˆž</inf> performance limitation analysis of sensitivity and complementary sensitivity functions. , 2016, , .		1
28	Evaluation of the ease of restarts in fault-tolerant control systems using multiple switching â„’<inf>2</inf> gains. , 2016, , .		0
29	Application of Facial Reduction to Hâˆž State Feedback Control Problemâˆ—â˜†The first author was supported by JSPS KAKENHI Grant Numbers 22740056 and 26400203.. IFAC-PapersOnLine, 2015, 48, 113-119.	0.9	1
30	New switching L2 gain analysis for a restart with controller resets after maintenance. IFAC-PapersOnLine, 2015, 48, 349-356.	0.9	6
31	H<inf>âˆž</inf> performance limitations analysis for SISO systems: A dual LMI approach. , 2015, , .		4
32	Rotation matrix optimization with quaternion. , 2015, , .		9
33	Effects of diagonal dominance on performance of passive fault tolerant servo systems. , 2015, , .		1
34	Tolerance against multiple fault modes and its application to corrective maintenance of faulty actuators in servo systems. , 2015, , .		0
35	Robust Fuzzy Observer-Based Fault Tolerant Tracking Control for Nonlinear Systems with Simultaneous Actuator and Sensor Faults: Application to a DC Series Motor Speed Drive. International Review of Automatic Control, 2015, 8, 375.	0.3	5
36	Fault-tolerant servo systems using integrators with variable limits. , 2014, , .		1

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37	Passive fault tolerant servo control against one device failure out of sensors and actuators. , 2014, , .		4
38	Dependability analysis of fault-tolerant servo systems using limited integrators. , 2014, , .		3
39	Lower bound analysis of H â€‰âˆžâ€‰ performance achievable via decentralized LTI controllers. International Journal of Robust and Nonlinear Control, 2014, 24, 2423-2437.	3.7	1
40	A design of fault-tolerant servo systems against sensor failures. , 2013, , .		3
41	Fault-tolerant servo systems against sensor failures using limited integrators. , 2013, , .		10
42	â„ï¸₂ gain analysis of linear systems with a single switching. International Journal of Robust and Nonlinear Control, 2011, 21, 827-837.	3.7	17
43	Probabilistic safety management of control laws against deviations from normal operating-range. , 2010, , .		9
44	Decentralized control for discrete-time LTI systems: Lower bound analysis of H<inf>∞</inf> performance achievable via LTI controllers. , 2010, , .		1
45	Control System Synthesis to Prevent Undesirable Transient Responses after a Failure for Safety. Transactions of the Institute of Systems Control and Information Engineers, 2010, 23, 65-73.	0.1	1
46	Control System Synthesis Based on Balance between Normal-Case Performance, Safety and Fault-Case Performance. Transactions of the Institute of Systems Control and Information Engineers, 2009, 22, 29-36.	0.1	1
47	New LMI Characterizations for Discrete-Time Descriptor Systems and Application to Multiobjetive Control System Synthesis. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 8821-8827.	0.4	3
48	Control System Synthesis Based on Trade-off between Safety and Control Performance. Transactions of the Institute of Systems Control and Information Engineers, 2008, 21, 89-99.	0.1	2
49	A NEW DILATED LMI CHARACTERIZATION AND ITERATIVE CONTROL SYSTEM SYNTHESIS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 250-255.	0.4	38
50	Unification of independent and sequential procedures for decentralized controller design. Automatica, 2007, 43, 707-713.	5.0	7
51	Explicit characterization of decentralized coprime factors. Automatica, 2004, 40, 1569-1574.	5.0	2
52	Rank Deficiency of Reliable Controllers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 533-538.	0.4	0
53	Drive Train Vibration and Acoustic Noise Reduction Control of Switched Reluctance Motor for Electric Vehicle. , 2002, , .		3
54	Quadratic Stability Conditions of Linear Systems with Frobenius Norm-Bounded Diagonal Perturbations. Transactions of the Society of Instrument and Control Engineers, 2000, 36, 720-722.	0.2	7

#	Article	IF	Citations
55	A design of controllers for simultaneous H infinity control problem. International Journal of Systems Science, 1999, 30, 25-31.	5.5	9
56	Development of Motor Control for Hybrid Vehicle using Gain-scheduled H-infinity Control. , 0, , .		0