

# Noboru Sebe

## List of Publications by Year in descending order

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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	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
2	$H_2$ gain analysis of linear systems with a single switching. International Journal of Robust and Nonlinear Control, 2011, 21, 827-837.	3.7	17
3	Switching $H_2$ gain for evaluating the fluctuations in transient responses after an unpredictable system switch. International Journal of Control, 2019, 92, 1084-1093.	1.9	14
4	Sequential Convex Overbounding Approximation Method for Bilinear Matrix Inequality Problems. IFAC-PapersOnLine, 2018, 51, 102-109.	0.9	13
5	Fault-tolerant servo systems against sensor failures using limited integrators. , 2013, , .		10
6	A design of controllers for simultaneous H infinity control problem. International Journal of Systems Science, 1999, 30, 25-31.	5.5	9
7	Probabilistic safety management of control laws against deviations from normal operating-range. , 2010, , .		9
8	Rotation matrix optimization with quaternion. , 2015, , .		9
9	Unification of independent and sequential procedures for decentralized controller design. Automatica, 2007, 43, 707-713.	5.0	7
10	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
11	New switching L2 gain analysis for a restart with controller resets after maintenance. IFAC-PapersOnLine, 2015, 48, 349-356.	0.9	6
12	Learning Koopman Operator under Dissipativity Constraints. IFAC-PapersOnLine, 2020, 53, 1169-1174.	0.9	6
13	Support technology for safe preventive maintenance of control systems. IFAC-PapersOnLine, 2017, 50, 10369-10376.	0.9	5
14	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
15	Passive fault tolerant servo control against one device failure out of sensors and actuators. , 2014, , .		4
16	$H_\infty$ performance limitations analysis for SISO systems: A dual LMI approach. , 2015, , .		4
17	Control System Design for Safely Performing Preventive Maintenance. , 2018, , .		4
18	Reduction of $H_\infty$ state feedback control problems for the MIMO servo systems. Asian Journal of Control, 2020, 22, 1025-1037.	3.0	4

#	ARTICLE	IF	CITATIONS
19	Drive Train Vibration and Acoustic Noise Reduction Control of Switched Reluctance Motor for Electric Vehicle. , 2002, , .		3
20	New LMI Characterizations for Discrete-Time Descriptor Systems and Application to Multiobjective Control System Synthesis. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 8821-8827.	0.4	3
21	A design of fault-tolerant servo systems against sensor failures. , 2013, , .		3
22	Dependability analysis of fault-tolerant servo systems using limited integrators. , 2014, , .		3
23	Reduction of SDPs in $H_\infty$ control of SISO systems and performance limitations analysis. , 2016, , .		3
24	State-Dependent Switching $L_2$ Gain for Analyzing the Fluctuations in Transient Responses After a System Switch. , 2018, , .		3
25	Application of facial reduction to $H_\infty$ state feedback control problem. International Journal of Control, 2019, 92, 303-316.	1.9	3
26	A safety assessment framework of control systems according to international standards. Asian Journal of Control, 2020, 22, 1741-1754.	3.0	3
27	Initial state design for controller switches by using state-dependent switching $L_2$ gain. , 2019, , .		3
28	Explicit characterization of decentralized coprime factors. Automatica, 2004, 40, 1569-1574.	5.0	2
29	Switching $H_2$ gain for analyzing the magnitude of a system switch. , 2016, , .		2
30	Reduction of $H_\infty$ state feedback control problems for the servo systems. , 2017, , .		2
31	State assignment method for improvement of transient response caused by controller switching. IFAC-PapersOnLine, 2018, 51, 365-370.	0.9	2
32	Strong feasibility of the dual problem of linear matrix inequality for $H_\infty$ output feedback control problem. , 2018, , .		2
33	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
34	Decentralized control for discrete-time LTI systems: Lower bound analysis of $H_\infty$ performance achievable via LTI controllers. , 2010, , .		1
35	Fault-tolerant servo systems using integrators with variable limits. , 2014, , .		1
36	Lower bound analysis of $H_\infty$ performance achievable via decentralized LTI controllers. International Journal of Robust and Nonlinear Control, 2014, 24, 2423-2437.	3.7	1

#	ARTICLE	IF	CITATIONS
37	Application of Facial Reduction to H <sup>∞</sup> State Feedback Control Problem—The first author was supported by JSPS KAKENHI Grant Numbers 22740056 and 26400203.. IFAC-PapersOnLine, 2015, 48, 113-119.	0.9	1
38	Effects of diagonal dominance on performance of passive fault tolerant servo systems. , 2015, , .		1
39	Dual LMI approach to H <sub>∞</sub> performance limitation analysis of sensitivity and complementary sensitivity functions. , 2016, , .		1
40	A bias fault estimation of actuators and sensors by optimization with $\ell_0$ norm constraint. , 2017, , .		1
41	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
42	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
43	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
44	Safety design of control systems according to international standards. , 2021, , .		1
45	Rank Deficiency of Reliable Controllers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 533-538.	0.4	0
46	Development of Motor Control for Hybrid Vehicle using Gain-scheduled H-infinity Control. , 0, , .		0
47	Tolerance against multiple fault modes and its application to corrective maintenance of faulty actuators in servo systems. , 2015, , .		0
48	Evaluation of the ease of restarts in fault-tolerant control systems using multiple switching $\ell_2$ gains. , 2016, , .		0
49	Effectiveness of higher order controllers for uncertain systems. , 2017, , .		0
50	Search Direction in Successive Linearization of Bilinear Matrix Inequality Problems. , 2018, , .		0
51	On Gain-Scheduled State-Feedback Controller Synthesis With Quadratic Stability Condition. , 2020, 4, 662-667.		0
52	Reduction of SISO H-infinity output feedback control problem. Linear Algebra and Its Applications, 2021, 610, 321-378.	0.9	0
53	FAULT TOLERANT METHOD ON POSITION CASCADE CONTROL OF DC SERVO SYSTEM. Mechatronic Systems and Control, 2020, 48, .	0.2	0
54	Initial state design for suppressing undesirable effects of controller switches. IFAC-PapersOnLine, 2020, 53, 6452-6458.	0.9	0

#	ARTICLE	IF	CITATIONS
55	Design of safe preventive maintenance procedure for control systems. , 2021, , .		0
56	Development of Support Programs for Solving BMI Problems by Overbounding Approximation Method. , 2022, , .		0