

Masaaki Nagahara

List of Publications by Year in descending order

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119
papers

1,255
citations

516215

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433756

31
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122
all docs

122
docs citations

122
times ranked

611
citing authors

#	ARTICLE	IF	CITATIONS
1	Sparse control for continuous-time systems. International Journal of Robust and Nonlinear Control, 2023, 33, 6-22.	2.1	5
2	A new perspective on cooperative control of multi-agent systems through different types of graph Laplacians. Advanced Robotics, 2023, 37, 2-11.	1.1	1
3	Constrained Smoothing Splines by Optimal Control. , 2022, 6, 1298-1303.		4
4	Iterative Greedy LMI for Sparse Control. , 2022, 6, 986-991.		3
5	Fast Hands-Off Control Using ADMM Real-Time Iterations. IEEE Transactions on Automatic Control, 2022, 67, 5416-5423.	3.6	1
6	Sparse optimal control problems with intermediate constraints: Necessary conditions. Optimal Control Applications and Methods, 2022, 43, 369-385.	1.3	5
7	Resource-aware time-optimal control with multiple sparsity measures. Automatica, 2022, 135, 109957.	3.0	5
8	Sparse Representation for Sampled-Data H^∞ Filters. , 2022, , 427-444.		1
9	Majority Determination in Binary-Valued Communication Networks. IEEE Transactions on Control of Network Systems, 2021, 8, 838-846.	2.4	2
10	Maximum Hands-Off Control With Time-Space Sparsity. , 2021, 5, 1213-1218.		9
11	LPV-FIR Modeling of Wheelchair Dynamics and Its Application to Model Predictive Control. Transactions of the Society of Instrument and Control Engineers, 2021, 57, 156-161.	0.1	0
12	Maximum hands-off control with time-space sparsity. , 2021, , .		0
13	Control, intervention, and behavioral economics over human social networks against COVID-19. Advanced Robotics, 2021, 35, 733-739.	1.1	0
14	Extra special issue on Soft/Social/Systemic (3S) Robot Technologies for enhancing Quality of New Normal (QoNN). Advanced Robotics, 2021, 35, 649-649.	1.1	0
15	PROPOSAL OF OPTIMAL CONTROL METHOD FOR TABS BY THE COMBINED USE OF MODEL PREDICTIVE CONTROL AND SPARSE MODELING. Journal of Environmental Engineering (Japan), 2021, 86, 629-637.	0.1	1
16	Application of Maximum Hands-off Distributed Control to a Quadrotor Group. , 2021, , .		0
17	Control of a quadrotor group based on maximum hands-off distributed control. International Journal of Mechatronics and Automation, 2021, 8, 200.	0.1	2
18	CLOT norm minimization for continuous hands-off control. Automatica, 2020, 113, 108679.	3.0	16

#	ARTICLE	IF	CITATIONS
19	Bayesian LPV-FIR Identification of Wheelchair Dynamics and Its Application to Feedforward Control. SICE Journal of Control Measurement and System Integration, 2020, 13, 208-213.	0.4	3
20	Realization of Sparse Control Using the Model Predictive Control Scheme. Transactions of the Society of Instrument and Control Engineers, 2020, 56, 74-80.	0.1	3
21	Sparse Representation of Feedback Filters in Delta-Sigma Modulators. IFAC-PapersOnLine, 2020, 53, 512-517.	0.5	1
22	Multihop TDMA-Based Wireless Networked Control Systems Robust against Bursty Packet Losses: A Two-Path Approach. IEICE Transactions on Communications, 2020, E103.B, 200-210.	0.4	1
23	Mathematical Properties of Maximum Hands-off Control. , 2020, , .		2
24	Continuity of the Combined L^1 - L^2 Optimal Control for Linear Systems. , 2019, , .		0
25	Distributed Proximal Minimization Algorithm for Constrained Convex Optimization over Strongly Connected Networks. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2019, E102.A, 351-358.	0.2	0
26	Control Vector Selection with State Clustering for Wireless Networked Control Systems. , 2019, , .		0
27	Discrete-time Maximum Hands-Off Control with Minimum Switches. , 2019, , .		3
28	Majority Determination on Binary-valued Communication Networks. , 2019, , .		1
29	Sparse Packetized Predictive Control Over Communication Networks with Packet Dropouts and Time Delays. , 2019, , .		0
30	A Research Project of Society 5.0 in Kitakyushu, Japan. , 2019, , .		8
31	Maximum Hands-Off Distributed Control for Consensus of Multiagent Systems with Sampled-Data State Observation. IEEE Transactions on Control of Network Systems, 2019, 6, 852-862.	2.4	19
32	Time-optimal hands-off control for linear time-invariant systems. Automatica, 2019, 99, 54-58.	3.0	24
33	Self-Interference Suppression Based on Sampled-Data H8 Control for Baseband Signal Subspaces. SICE Journal of Control Measurement and System Integration, 2019, 12, 182-189.	0.4	0
34	Distributed Sparse Modeling for Society 5.0: Big Data Analysis over Multiagent Networks. ieice Ess Fundamentals Review, 2019, 13, 95-107.	0.1	0
35	4. Dynamical Sparse Modeling and Networked Control. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2019, 73, 451-453.	0.0	0
36	Min-Max Design of Error Feedback Quantizers Without Overloading. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 1395-1405.	3.5	6

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37	Discrete-Valued Model Predictive Control Using Sum-of-Absolute-Values Optimization. Asian Journal of Control, 2018, 20, 196-206.	1.9	8
38	Control Vector Selection with Delay Estimation in Wireless Networked Control Systems. , 2018, , .		2
39	Sampled-Data Filters with Compactly Supported Acquisition Prefilters. , 2018, , .		3
40	Dynamical Model of Overconfidence Phenomena Due to ZE-Type Confirmation Bias. , 2018, , .		2
41	Hands-off Control for Discrete-time Linear Systems subject to Polytopic Uncertainties. IFAC-PapersOnLine, 2018, 51, 355-360.	0.5	3
42	Hypertracking Beyond the Nyquist Frequency. Lecture Notes in Control and Information Sciences - Proceedings, 2018, , 369-379.	0.1	1
43	Rate-distortion analysis of Delta-Sigma modulators. , 2017, , .		1
44	Multiuser Detection Based on MAP Estimation With Sum-of-Absolute-Values Relaxation. IEEE Transactions on Signal Processing, 2017, 65, 5621-5634.	3.2	14
45	Discrete-Valued Control of Linear Time-Invariant Systems by Sum-of-Absolute-Values Optimization. IEEE Transactions on Automatic Control, 2017, 62, 2750-2763.	3.6	34
46	Mean Squared Error Analysis of Quantizers With Error Feedback. IEEE Transactions on Signal Processing, 2017, 65, 5970-5981.	3.2	21
47	Continuous Hands-off Control by CLOT Norm Minimization. IFAC-PapersOnLine, 2017, 50, 14454-14459.	0.5	8
48	Cross-layer design of an LQG controller in multihop TDMA-based wireless networked control systems. , 2017, , .		6
49	Min-max IIR filter design for feedback quantizers. , 2017, , .		1
50	Signal reconstruction with generalized sampling. , 2017, , .		6
51	CLOT optimization for distributed hands-off control with continuity. , 2017, , .		0
52	Optimal Control and Sparse Modeling. Ieice Ess Fundamentals Review, 2017, 10, 176-185.	0.1	0
53	Simultaneous rejection of signals below and above the nyquist frequency. , 2017, , .		5
54	Robust AC Voltage Regulation of Microgrids in Islanded Mode with Sinusoidal Internal Model. SICE Journal of Control Measurement and System Integration, 2017, 10, 62-69.	0.4	2

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55	Discrete-time hands-off control by sparse optimization. Eurasip Journal on Advances in Signal Processing, 2016, 2016, .	1.0	31
56	Computation of maximum hands-off control. , 2016, , .		4
57	Faster-than-nyquist signaling by sum-of-absolute-values optimization. , 2016, , .		3
58	Consensus by maximum hands-off distributed control with sampled-data state observation. , 2016, , .		4
59	Massive overloaded MIMO signal detection via convex optimization with proximal splitting. , 2016, , .		14
60	Tracking of signals beyond the Nyquist frequency. , 2016, , .		9
61	Multiuser detection by MAP estimation with sum-of-absolute-values relaxation. , 2016, , .		5
62	Maximum hands-off control without normality assumption. , 2016, , .		14
63	Synthesis of IIR error feedback filters for $\hat{P}^{\text{H}}\hat{E}$ modulators using approximation. , 2016, , .		1
64	Symbol Detection for Faster-Than-Nyquist Signaling by Sum-of-Absolute-Values Optimization. IEEE Signal Processing Letters, 2016, 23, 1853-1857.	2.1	14
65	Characterization of maximum hands-off control. Systems and Control Letters, 2016, 94, 31-36.	1.3	37
66	Value function in maximum hands-off control for linear systems. Automatica, 2016, 64, 190-195.	3.0	22
67	Maximum Hands-Off Control: A Paradigm of Control Effort Minimization. IEEE Transactions on Automatic Control, 2016, 61, 735-747.	3.6	132
68	Digital repetitive controller design via sampled-data delayed signal reconstruction. Automatica, 2016, 65, 203-209.	3.0	15
69	Time-Domain Equalization for Single-Frequency Full-Duplex Wireless Relay Using $\ H\ _2^2$ Optimal Control. Proceedings of the ISICIE International Symposium on Stochastic Systems Theory and Its Applications, 2016, 2016, 12-15.	0.1	0
70	Loop-back interference suppression for OFDM signals via sampled-data control. , 2015, , .		0
71	Sampled-data H^{∞} optimization for self-interference suppression in baseband signal subspaces. , 2015, , .		1
72	Continuity of the value function in sparse optimal control. , 2015, , .		3

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73	Discrete Signal Reconstruction by Sum of Absolute Values. IEEE Signal Processing Letters, 2015, , 1-1.	2.1	36
74	Digital Cancellation of Self-Interference for Single-Frequency Full-Duplex Relay Stations via Sampled-Data Control. SICE Journal of Control Measurement and System Integration, 2015, 8, 321-327.	0.4	4
75	Sampled-data H^∞ design of couplingwave cancelers in single-frequency full-duplex relay stations. , 2014, , .		2
76	Sparse Packetized Predictive Control for Networked Control Over Erasure Channels. IEEE Transactions on Automatic Control, 2014, 59, 1899-1905.	3.6	83
77	L^1 Control Theoretic Smoothing Splines. IEEE Signal Processing Letters, 2014, 21, 1394-1397.	2.1	9
78	FIR Digital Filter Design by Sampled-Data H^∞ Discretization. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 3110-3115.	0.4	6
79	Monotone Smoothing Splines using General Linear Systems. Asian Journal of Control, 2013, 15, 461-468.	1.9	7
80	H^∞ -Optimal Fractional Delay Filters. IEEE Transactions on Signal Processing, 2013, 61, 4473-4480.	3.2	14
81	Optimal discretization of analog filters via sampled-data H^∞ control theory. , 2013, , .		3
82	Maximum hands-off control and L^1 optimality. , 2013, , .		19
83	A User's Guide to Compressed Sensing for Communications Systems. IEICE Transactions on Communications, 2013, E96.B, 685-712.	0.4	185
84	Packetized predictive control for rate-limited networks via sparse representation. , 2012, , .		16
85	Signal Reconstruction via H^∞ Sampled-Data Control Theory—Beyond the Shannon Paradigm. IEEE Transactions on Signal Processing, 2012, 60, 613-625.	3.2	43
86	Compressive Sampling for Remote Control Systems. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2012, E95.A, 713-722.	0.2	14
87	H^∞ -Optimal Fractional Delay Filters with Application to Pitch Shifting*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 61-66.	0.4	1
88	Compressive sampling for networked feedback control. , 2012, , .		11
89	Frequency Domain Min-Max Optimization of Noise-Shaping Delta-Sigma Modulators. IEEE Transactions on Signal Processing, 2012, 60, 2828-2839.	3.2	51
90	H^∞ control of microgrids involving gas turbine engines and batteries. , 2012, , .		7

#	ARTICLE	IF	CITATIONS
91	Sparse command generator for remote control. , 2011, , .		2
92	H∞ Design of Periodically Nonuniform Interpolation and Decimation for Non-Band-Limited Signals. SICE Journal of Control Measurement and System Integration, 2011, 4, 341-348.	0.4	5
93	Min-Max Design of FIR Digital Filters by Semidefinite Programming. , 2011, , .		5
94	Sparse Representations for Packetized Predictive Networked Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 84-89.	0.4	34
95	Pitch Shifting by H&tilde-Optimal Variable Fractional Delay Filters. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 4386-4391.	0.4	1
96	Link Quality Classifier with Compressed Sensing Based on ell_1-ell_2 Optimization. IEEE Communications Letters, 2011, 15, 1117-1119.	2.5	24
97	H&tilde optimal approximation for causal spline interpolation. Signal Processing, 2011, 91, 176-184.	2.1	4
98	YY Filter " A Paradigm of Digital Signal Processing. Lecture Notes in Control and Information Sciences, 2010, , 331-340.	0.6	2
99	Optimal noise shaping in Δ∑ Modulators via generalized KYP lemma. , 2009, , .		1
100	Robust repetitive control by Sampled-data H^{∞} filters. , 2009, , .		2
101	Hybrid design of filtered-x adaptive algorithm via sampled-data control theory. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	1
102	Interpolation of nonuniformly decimated signals via sampled-data H^{∞}∞</sup> optimization. , 2008, , .		1
103	Stability of Signal Reconstruction Filters via Cardinal Exponential Splines. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 1414-1419.	0.4	1
104	Optimal wavelet expansion via sampled-data H^{∞} control theory. , 2007, , .		0
105	Causal Spline Interpolation by H# Optimization. , 2007, , .		5
106	Causal Spline Interpolation by H&tilde Optimization. , 2006, , .		2
107	Optimal Wavelet Expansion via Sampled-Data Control Theory. IEEE Signal Processing Letters, 2004, 11, 79-82.	2.1	7
108	Repetitive control via sampled-data H&tilde Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 561-565.	0.4	2

#	ARTICLE	IF	CITATIONS
109	Optimizing FIR approximation for discrete-time IIR filters. IEEE Signal Processing Letters, 2003, 10, 273-276.	2.1	38
110	Digital Filter Design via Sampled-Data Control Theory. , 2003, , 31-43.		0
111	Sampled-Data Design of Interpolators Using the Cutting-Plane Method. Transactions of the Society of Instrument and Control Engineers, 2002, 38, 462-468.	0.1	0
112	A new design for sample-rate converters. , 0, , .		14
113	Approximating sampled-data systems with applications to digital redesign. , 0, , .		16
114	Sampled-data design of interpolators using the cutting-plane method. , 0, , .		1
115	Optimal design of fractional delay filters. , 0, , .		12
116	Optimal Design of Fractional Delay FIR Filters without Band-Limiting Assumption. , 0, , .		6
117	Design of Oversampling \hat{H}^{∞} DA Converters Via H^{∞} Optimization. , 0, , .		0
118	Controller tuning with Bayesian optimization and its acceleration: Concept and experimental validation. Asian Journal of Control, 0, , .	1.9	0
119	Distributed sparse optimization for source localization over diffusion fields with cooperative spatiotemporal sensing. Advanced Robotics, 0, , 1-15.	1.1	0