

Masaaki Nagahara

List of Publications by Year in descending order

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119
papers

1,255
citations

516215

16
h-index

433756

31
g-index

122
all docs

122
docs citations

122
times ranked

611
citing authors

#	ARTICLE	IF	CITATIONS
1	A User's Guide to Compressed Sensing for Communications Systems. IEICE Transactions on Communications, 2013, E96.B, 685-712.	0.4	185
2	Maximum Hands-Off Control: A Paradigm of Control Effort Minimization. IEEE Transactions on Automatic Control, 2016, 61, 735-747.	3.6	132
3	Sparse Packetized Predictive Control for Networked Control Over Erasure Channels. IEEE Transactions on Automatic Control, 2014, 59, 1899-1905.	3.6	83
4	Frequency Domain Min-Max Optimization of Noise-Shaping Delta-Sigma Modulators. IEEE Transactions on Signal Processing, 2012, 60, 2828-2839.	3.2	51
5	Signal Reconstruction via H^{∞} Sampled-Data Control Theory—Beyond the Shannon Paradigm. IEEE Transactions on Signal Processing, 2012, 60, 613-625.	3.2	43
6	Optimizing FIR approximation for discrete-time IIR filters. IEEE Signal Processing Letters, 2003, 10, 273-276.	2.1	38
7	Characterization of maximum hands-off control. Systems and Control Letters, 2016, 94, 31-36.	1.3	37
8	Discrete Signal Reconstruction by Sum of Absolute Values. IEEE Signal Processing Letters, 2015, , 1-1.	2.1	36
9	Sparse Representations for Packetized Predictive Networked Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 84-89.	0.4	34
10	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
11	Discrete-time hands-off control by sparse optimization. Eurasip Journal on Advances in Signal Processing, 2016, 2016, .	1.0	31
12	Link Quality Classifier with Compressed Sensing Based on ℓ_1 - ℓ_2 Optimization. IEEE Communications Letters, 2011, 15, 1117-1119.	2.5	24
13	Time-optimal hands-off control for linear time-invariant systems. Automatica, 2019, 99, 54-58.	3.0	24
14	Value function in maximum hands-off control for linear systems. Automatica, 2016, 64, 190-195.	3.0	22
15	Mean Squared Error Analysis of Quantizers With Error Feedback. IEEE Transactions on Signal Processing, 2017, 65, 5970-5981.	3.2	21
16	Maximum hands-off control and L^1 optimality. , 2013, , .		19
17	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
18	Approximating sampled-data systems with applications to digital redesign. , 0, , .		16

#	ARTICLE	IF	CITATIONS
19	Packetized predictive control for rate-limited networks via sparse representation. , 2012, , .		16
20	CLOT norm minimization for continuous hands-off control. Automatica, 2020, 113, 108679.	3.0	16
21	Digital repetitive controller design via sampled-data delayed signal reconstruction. Automatica, 2016, 65, 203-209.	3.0	15
22	A new design for sample-rate converters. , 0, , .		14
23	Compressive Sampling for Remote Control Systems. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2012, E95.A, 713-722.	0.2	14
24	\mathcal{H}^{∞} -Optimal Fractional Delay Filters. IEEE Transactions on Signal Processing, 2013, 61, 4473-4480.	3.2	14
25	Massive overloaded MIMO signal detection via convex optimization with proximal splitting. , 2016, , .		14
26	Maximum hands-off control without normality assumption. , 2016, , .		14
27	Symbol Detection for Faster-Than-Nyquist Signaling by Sum-of-Absolute-Values Optimization. IEEE Signal Processing Letters, 2016, 23, 1853-1857.	2.1	14
28	Multiuser Detection Based on MAP Estimation With Sum-of-Absolute-Values Relaxation. IEEE Transactions on Signal Processing, 2017, 65, 5621-5634.	3.2	14
29	Optimal design of fractional delay filters. , 0, , .		12
30	Compressive sampling for networked feedback control. , 2012, , .		11
31	L^1 Control Theoretic Smoothing Splines. IEEE Signal Processing Letters, 2014, 21, 1394-1397.	2.1	9
32	Tracking of signals beyond the Nyquist frequency. , 2016, , .		9
33	Maximum Hands-Off Control With Time-Space Sparsity. , 2021, 5, 1213-1218.		9
34	Continuous Hands-off Control by CLOT Norm Minimization. IFAC-PapersOnLine, 2017, 50, 14454-14459.	0.5	8
35	Discrete-Valued Model Predictive Control Using Sum-of-Absolute-Values Optimization. Asian Journal of Control, 2018, 20, 196-206.	1.9	8
36	A Research Project of Society 5.0 in Kitakyushu, Japan. , 2019, , .		8

#	ARTICLE	IF	CITATIONS
37	Optimal Wavelet Expansion via Sampled-Data Control Theory. IEEE Signal Processing Letters, 2004, 11, 79-82.	2.1	7
38	H [∞] control of microgrids involving gas turbine engines and batteries. , 2012, , .		7
39	Monotone Smoothing Splines using General Linear Systems. Asian Journal of Control, 2013, 15, 461-468.	1.9	7
40	Optimal Design of Fractional Delay FIR Filters without Band-Limiting Assumption. , 0, , .		6
41	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
42	Cross-layer design of an LQG controller in multihop TDMA-based wireless networked control systems. , 2017, , .		6
43	Signal reconstruction with generalized sampling. , 2017, , .		6
44	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
45	Causal Spline Interpolation by H [∞] Optimization. , 2007, , .		5
46	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
47	Min-Max Design of FIR Digital Filters by Semidefinite Programming. , 2011, , .		5
48	Multuser detection by MAP estimation with sum-of-absolute-values relaxation. , 2016, , .		5
49	Simultaneous rejection of signals below and above the nyquist frequency. , 2017, , .		5
50	Sparse optimal control problems with intermediate constraints: Necessary conditions. Optimal Control Applications and Methods, 2022, 43, 369-385.	1.3	5
51	Sparse control for continuous-time systems. International Journal of Robust and Nonlinear Control, 2023, 33, 6-22.	2.1	5
52	Resource-aware time-optimal control with multiple sparsity measures. Automatica, 2022, 135, 109957.	3.0	5
53	H [∞] optimal approximation for causal spline interpolation. Signal Processing, 2011, 91, 176-184.	2.1	4
54	Computation of maximum hands-off control. , 2016, , .		4

#	ARTICLE	IF	CITATIONS
55	Consensus by maximum hands-off distributed control with sampled-data state observation. , 2016, , .		4
56	Constrained Smoothing Splines by Optimal Control. , 2022, 6, 1298-1303.		4
57	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
58	Optimal discretization of analog filters via sampled-data H^∞ control theory. , 2013, , .		3
59	Continuity of the value function in sparse optimal control. , 2015, , .		3
60	Faster-than-nyquist signaling by sum-of-absolute-values optimization. , 2016, , .		3
61	Sampled-Data Filters with Compactly Supported Acquisition Prefilters. , 2018, , .		3
62	Hands-off Control for Discrete-time Linear Systems subject to Polytopic Uncertainties. IFAC-PapersOnLine, 2018, 51, 355-360.	0.5	3
63	Discrete-time Maximum Hands-Off Control with Minimum Switches. , 2019, , .		3
64	Iterative Greedy LMI for Sparse Control. , 2022, 6, 986-991.		3
65	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
66	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
67	Repetitive control via sampled-data H^∞ Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 561-565.	0.4	2
68	Causal Spline Interpolation by H^1 Optimization. , 2006, , .		2
69	Robust repetitive control by Sampled-data H^∞ filters. , 2009, , .		2
70	Sparse command generator for remote control. , 2011, , .		2
71	Sampled-data H^∞ & H^1 design of couplingwave cancelers in single-frequency full-duplex relay stations. , 2014, , .		2
72	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

#	ARTICLE	IF	CITATIONS
73	Control Vector Selection with Delay Estimation in Wireless Networked Control Systems. , 2018, , .		2
74	Dynamical Model of Overconfidence Phenomena Due to ZE-Type Confirmation Bias. , 2018, , .		2
75	Majority Determination in Binary-Valued Communication Networks. IEEE Transactions on Control of Network Systems, 2021, 8, 838-846.	2.4	2
76	YY Filter " A Paradigm of Digital Signal Processing. Lecture Notes in Control and Information Sciences, 2010, , 331-340.	0.6	2
77	Mathematical Properties of Maximum Hands-off Control. , 2020, , .		2
78	Control of a quadrotor group based on maximum hands-off distributed control. International Journal of Mechatronics and Automation, 2021, 8, 200.	0.1	2
79	Sampled-data design of interpolators using the cutting-plane method. , 0, , .		1
80	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
81	Interpolation of nonuniformly decimated signals via sampled-data H [∞] optimization. , 2008, , .		1
82	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
83	Optimal noise shaping in $\Sigma\Delta$ Modulators via generalized KYP lemma. , 2009, , .		1
84	Pitch Shifting by H [∞] -Optimal Variable Fractional Delay Filters. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 4386-4391.	0.4	1
85	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
86	Sampled-data H [∞] optimization for self-interference suppression in baseband signal subspaces. , 2015, , .		1
87	Synthesis of IIR error feedback filters for $\Sigma\Delta$ modulators using approximation. , 2016, , .		1
88	Rate-distortion analysis of Delta-Sigma modulators. , 2017, , .		1
89	Min-max IIR filter design for feedback quantizers. , 2017, , .		1
90	Majority Determination on Binary-valued Communication Networks. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
91	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
92	Fast Hands-Off Control Using ADMM Real-Time Iterations. IEEE Transactions on Automatic Control, 2022, 67, 5416-5423.	3.6	1
93	Hypertracking Beyond the Nyquist Frequency. Lecture Notes in Control and Information Sciences - Proceedings, 2018, , 369-379.	0.1	1
94	Sparse Representation of Feedback Filters in Delta-Sigma Modulators. IFAC-PapersOnLine, 2020, 53, 512-517.	0.5	1
95	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
96	Sparse Representation for Sampled-Data H^∞ Filters. , 2022, , 427-444.		1
97	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
98	Design of Oversampling \hat{r} DA Converters Via H^∞ Optimization. , 0, , .		0
99	Optimal wavelet expansion via sampled-data H^∞ control theory. , 2007, , .		0
100	Loop-back interference suppression for OFDM signals via sampled-data control. , 2015, , .		0
101	CLOT optimization for distributed hands-off control with continuity. , 2017, , .		0
102	Optimal Control and Sparse Modeling. Ieice Ess Fundamentals Review, 2017, 10, 176-185.	0.1	0
103	Continuity of the Combined L^1 - L^2 Optimal Control for Linear Systems. , 2019, , .		0
104	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
105	Control Vector Selection with State Clustering for Wireless Networked Control Systems. , 2019, , .		0
106	Sparse Packetized Predictive Control Over Communication Networks with Packet Dropouts and Time Delays. , 2019, , .		0
107	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
108	Maximum hands-off control with time-space sparsity. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
109	Control, intervention, and behavioral economics over human social networks against COVID-19. <i>Advanced Robotics</i> , 2021, 35, 733-739.	1.1	0
110	Extra special issue on Soft/Social/Systemic (3S) Robot Technologies for enhancing Quality of New Normal (QoNN). <i>Advanced Robotics</i> , 2021, 35, 649-649.	1.1	0
111	Application of Maximum Hands-off Distributed Control to a Quadrotor Group. , 2021, , .		0
112	Sampled-Data Design of Interpolators Using the Cutting-Plane Method. <i>Transactions of the Society of Instrument and Control Engineers</i> , 2002, 38, 462-468.	0.1	0
113	Digital Filter Design via Sampled-Data Control Theory. , 2003, , 31-43.		0
114	Time-Domain Equalization for Single-Frequency Full-Duplex Wireless Relay Using <i>H</i><sup>2</sup> </sup>Optimal Control. <i>Proceedings of the ISIC International Symposium on Stochastic Systems Theory and Its Applications</i> , 2016, 2016, 12-15.	0.1	0
115	Self-Interference Suppression Based on Sampled-Data H8 Control for Baseband Signal Subspaces. <i>SICE Journal of Control Measurement and System Integration</i> , 2019, 12, 182-189.	0.4	0
116	Distributed Sparse Modeling for Society 5.0: Big Data Analysis over Multiagent Networks. <i>leice Ess Fundamentals Review</i> , 2019, 13, 95-107.	0.1	0
117	Controller tuning with Bayesian optimization and its acceleration: Concept and experimental validation. <i>Asian Journal of Control</i> , 0, , .	1.9	0
118	4. Dynamical Sparse Modeling and Networked Contro. <i>Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers</i> , 2019, 73, 451-453.	0.0	0
119	Distributed sparse optimization for source localization over diffusion fields with cooperative spatiotemporal sensing. <i>Advanced Robotics</i> , 0, , 1-15.	1.1	0