Leonid Mirkin

List of Publications by Year
in descending order

77 papers	1,132 citations	706676 14 h-index	488211 31 g-index
77 all docs	77 docs citations	77 times ranked	687 citing authors

#	Article	IF	Citations
1	On the Dependence of the Optimal H 2 Performance on Sampling Rate Variability. , 2022, 6, 265-270.		0
2	On Sampled-Data Consensus: Divide and Concur. , 2022, 6, 343-348.		6
3	Integral Sliding-Mode Control With Internal Model: A Separation. , 2022, 6, 446-451.		9
4	H_infty Event-Triggered Control With Performance Guarantees Vis-Ã-Vis the Optimal Periodic Solution. IEEE Transactions on Automatic Control, 2022, 67, 63-74.	3.6	4
5	Dead-Time Compensation as an Observer-Based Design. , 2022, 6, 1604-1609.		1
6	On Dead-Time Compensation in Repetitive Control. , 2020, 4, 791-796.		4
7	Input Shaping via FIR L2 Preview Tracking. , 2020, , .		0
8	H 2 Control Under Intermittent Sampling and Small Communication Delays. , 2019, 3, 583-588.		2
9	Discrete-time <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e96" altimg="si5.gif"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math> control under intermittent and lossy communications. Automatica, 2019, 103, 180-188.	3.0	5
10	Hâˆž Event-Triggered Control with Performance Guarantees Vis-Ã-vis Optimal Periodic Control. , 2019, , .		1
11	On Discrete-Time Hâˆž Optimization under Intermittent Communications. , 2019, , .		0
12	On Discrete-Time H Optimization under Intermittent Communications. IFAC-PapersOnLine, 2018, 51, 64-69.	0.5	0
13	A Network-Friendly Implementation Architecture for Observer-Based Intermittent Controllers. IFAC-PapersOnLine, 2018, 51, 254-258.	0.5	1
14	Real-time power sharing: Dynamic control allocation and VPP aggregation. Automatica, 2018, 94, 102-111.	3.0	0
15	H_{2} Optimal Coordination of Homogeneous Agents Subject to Limited Information Exchange. IEEE Transactions on Automatic Control, 2017, 62, 1424-1430.	3.6	8
16	Intermittent Redesign of Analog Controllers via the Youla Parameter. IEEE Transactions on Automatic Control, 2017, 62, 1838-1851.	3.6	22
17	On Minimum-Variance Event-Triggered Control. , 2017, 1, 32-37.		22
18	Redesign of Stabilizing Discrete-Time Controllers to Accommodate Intermittent Sampling * *Supported by the Grand Technion Energy Program, grant 2020938.. IFAC-PapersOnLine, 2017, 50, 2633-2638.	0.5	4

#	Article	IF	Citations
19	H 2 Optimization Under Intermittent Sampling and its Application to Event-Triggered Control * *Supported by the Israeli Ministry of National Infrastructure, Energy &Water Resources, grant no. 215-11-028.. IFAC-PapersOnLine, 2017, 50, 7869-7874.	0.5	3
20	On the real-time power sharing problem. , 2016, , .		0
21	H2 optimal Cooperation of Homogeneous Agents Subject to Delyed Information Exchange**This research was supported by the Bernard M. Gordon Center for Systems Engineering at the Technion. IFAC-PapersOnLine, 2016, 49, 147-152.	0.5	0
22	When is preview beneficial?. , 2015, , .		0
23	Optimal coordination of homogeneous agents subject to delayed information exchange. , 2014, , .		1
24	Sampled-Data H^{2} Optimization of Systems With I/O Delays via Analog Loop Shifting. IEEE Transactions on Automatic Control, 2014, 59, 787-791.	3.6	10
25	Distributed Control with Low-Rank Coordination. IEEE Transactions on Control of Network Systems, 2014, 1, 53-63.	2.4	23
26	L^2 Optimization in Discrete FIR Estimation: Exploiting State-Space Structure. SIAM Journal on Control and Optimization, 2013, 51, 419-441.	1.1	10
27	Analog loop shifting in H² optimization of input-delay sampled-data systems. , 2013, , .		0
28	Toward a more efficient implementation of distributed-delay elements. , 2013, , .		5
29	Sampled-Data H2 Smoothing with Generalized Sampling. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 101-106.	0.4	0
30	L² Sampled signal reconstruction with causality constraints - Part I: Setup and solutions. IEEE Transactions on Signal Processing, 2012, 60, 2260-2272.	3.2	7
31	L^2 Sampled Signal Reconstruction With Causality Constraintsâ€”Part II: Theory. IEEE Transactions on Signal Processing, 2012, 60, 2273-2285.	3.2	2
32	On the <formula formulatype="inline"><tex Notation="TeX">H^{2}</tex> </formula> Two-Sided Model Matching Problem With Preview. IEEE Transactions on Automatic Control, 2012, 57, 204-209.	3.6	15
33	Input/Output Stabilization in the General Two-Sided Model Matching Setup. SIAM Journal on Control and Optimization, 2012, 50, 1413-1438.	1.1	2
34	FIR stabilization in discrete one-sided model-matching problems. Automatica, 2012, 48, 2990-2992.	3.0	3
35	On the Robustness of Sampled-Data Systems to Uncertainty in Continuous-Time Delays. IEEE Transactions on Automatic Control, 2011, 56, 686-692.	3.6	5
36	L² signal reconstruction with FIR and steady-state behavior constraints. , 2011, , .		2

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37	Dead-Time Compensation for Systems With Multiple I/O Delays: A Loop-Shifting Approach. IEEE Transactions on Automatic Control, 2011, 56, 2542-2554.	3.6	20
38	A state-space solution of bilateral Diophantine equations over. Systems and Control Letters, 2010, 59, 226-232.	1.3	1
39	ℒ² optimization in discrete FIR estimation: Exploiting state-space structure. , 2010, , .		2
40	Preview in H² optimal control: Experimental case studies. , 2010, , .		3
41	On the robustness of sampled-data systems to uncertainty in continuous-time delays. , 2010, , .		1
42	Sampling From a System-Theoretic Viewpoint: Part Iâ€"Concepts and Tools. IEEE Transactions on Signal Processing, 2010, 58, 3578-3590.	3.2	16
43	Sampling From a System-Theoretic Viewpoint: Part Iiâ€"Noncausal Solutions. IEEE Transactions on Signal Processing, 2010, 58, 3591-3606.	3.2	14
44	H²optimization for systems with adobe input delays: A loop shifting approach. , 2009, , .		0
45	Imposing FIR Structure on H^2 Preview Tracking and Smoothing Solutions. SIAM Journal on Control and Optimization, 2009, 48, 2433-2460.	1.1	5
46	Robust Implementation of Controllers Containing Distributed-Delay Elements: A Case-Study. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 231-236.	0.4	0
47	Loop Shifting for Systems with Adobe Input Delay. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 307-312.	0.4	3
48	Noncausal sampled signal reconstruction from noisy measurements: A system-theoretic approach. , 2007, , .		1
49	On Geometric and Analytic Constraints in the ${H}^{{infty} }$ Fixed-Lag Smoothing. IEEE Transactions on Automatic Control, 2007, 52, 1514-1519.	3.6	11
50	Adaptive optics implementation with a Fourier reconstructor. Applied Optics, 2007, 46, 574.	2.1	3
51	On performance limitation factors in the h[∞] preview problems. , 2007, , .		0
52	Some Remarks on the Use of Time-Varying Delay to Model Sample-and-Hold Circuits. IEEE Transactions on Automatic Control, 2007, 52, 1109-1112.	3.6	264
53	On the use of time-varying delay to represent sample-and-hold circuits. , 2007, , .		4
54	Robustness of linear uncertain sampled-data control systems with generalized sampled-data hold functions. International Journal of Robust and Nonlinear Control, 2007, 17, 649-673.	2.1	1

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55	The Modified Smith Predictor is L1 -Optimal Too*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 650-654.	0.4	0
56	On stability of second-order quasi-polynomials with a single delay. Automatica, 2006, 42, 1041-1047.	3.0	40
57	Imposing FIR Structure on H2 Preview Tracking and Smoothing Solutions. , 2006, , .		2
58	Control Issues in Systems with Loop Delays. , 2005, , 627-648.		58
59	On the approximation of distributed-delay control laws. Systems and Control Letters, 2004, 51, 331-342.	1.3	107
60	Optimal hold functions for MDCS sampled-data problems. International Journal of Robust and Nonlinear Control, 2003, 13, 1113-1135.	2.1	1
61	On the Hâˆž fixed-lag smoothing: how to exploit the information preview. Automatica, 2003, 39, 1495-1504.	3.0	66
62	Every stabilizing dead-time controller has an observerâ€“predictor-based structure. Automatica, 2003, 39, 1747-1754.	3.0	139
63	On static feedback for the â„“ 1 and other optimal control problems. International Journal of Control, 2003, 76, 453-458.	1.2	1
64	Hâˆž Control of systems with multiple I/O delays *. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 191-196.	0.4	2
65	Are distributed-delay control laws intrinsically unapproximable? *. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 339-344.	0.4	5
66	On the H âˆž Fixed-Lag Smoothing: How to Exploit the Information Preview. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 501-506.	0.4	12
67	Achievable H âˆž Performance in Sampled-Data Smoothing: Beyond the âˆ¥ÄŽ 1 âˆ¥ - Barrier *. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 95-100.	0.4	0
68	On the extraction of dead-time controllers from delay-free parametrizations *. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 169-174.	0.4	15
69	Predictor-Based Solution to the H âˆž Control of Dead-Time Systems *. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 255-260.	0.4	1
70	H2 design of generalized sampling and hold functions with waveform constraints. , 1999, , .		7
71	On the sampled-data Hâˆž filtering problem. Automatica, 1999, 35, 895-905.	3.0	14
72	H2 and H^infty Design of Sampled-Data Systems Using Lifting. Part I: General Framework and Solutions. SIAM Journal on Control and Optimization, 1999, 38, 175-196.	1.1	53

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73	H2and Hinf Design of Sampled-Data Systems Using Lifting. Part II: Properties of Systems in the Lifted Domain. SIAM Journal on Control and Optimization, 1999, 38, 197-218.	1.1	24
74	On discrete-time H problem with a strictly proper controller. International Journal of Control, 1997, 66, 747-766.	1.2	23
75	Optimal sampling and hold devices in sampled-data systems. , 1997, , .		0
76	Mixed discrete/continuous specifications in sampled-data H2-optimal control. Automatica, 1997, 33, 1997-2014.	3.0	12
77	On the characterization of sampled-data controllers in the lifted domain. Systems and Control Letters, 1997, 29, 269-277.	1.3	24