

Mario Sznaier

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118
papers

1,491
citations

20
h-index

33
g-index

133
ext. papers

1,892
ext. citations

3.9
avg, IF

4.89
L-index

#	Paper	IF	Citations
118	The Way They Move: Tracking Multiple Targets with Similar Appearance 2013 ,		161
117	Heuristically enhanced feedback control of constrained discrete-time linear systems. <i>Automatica</i> , 1990 , 26, 521-532	5.7	72
116	A Sparsification Approach to Set Membership Identification of Switched Affine Systems. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 634-648	5.9	66
115	Probabilistically Constrained Linear Programs and Risk-Adjusted Controller Design. <i>SIAM Journal on Optimization</i> , 2005 , 15, 938-951	2	46
114	. <i>IEEE Transactions on Automatic Control</i> , 1995 , 40, 1127-1131	5.9	43
113	Set membership identification of switched linear systems with known number of subsystems. <i>Automatica</i> , 2015 , 51, 180-191	5.7	39
112	Segmentation for robust tracking in the presence of severe occlusion. <i>IEEE Transactions on Image Processing</i> , 2004 , 13, 166-78	8.7	39
111	Activity recognition using dynamic subspace angles 2011 ,		36
110	H ₂ /H _∞ filtering theory and an aerospace application. <i>International Journal of Robust and Nonlinear Control</i> , 1996 , 6, 347-366	3.6	36
109	An LMI approach to control-oriented identification and model (In) validation of LPV systems. <i>IEEE Transactions on Automatic Control</i> , 2003 , 48, 1619-1624	5.9	35
108	Mixed Time/Frequency-Domain Based Robust Identification. <i>Automatica</i> , 1998 , 34, 1375-1389	5.7	34
107	Efficient Temporal Sequence Comparison and Classification Using Gram Matrix Embeddings on a Riemannian Manifold 2016 ,		34
106	A Rank Minimization Approach to Video Inpainting 2007 ,		31
105	. <i>IEEE Transactions on Automatic Control</i> , 1994 , 39, 2511-2517	5.9	31
104	Computational complexity analysis of set membership identification of Hammerstein and Wiener systems. <i>Automatica</i> , 2009 , 45, 701-705	5.7	27
103	Dynamic subspace-based coordinated multicamera tracking 2011 ,		27
102	. <i>IEEE Transactions on Automatic Control</i> , 1994 , 39, 1487-1492	5.9	26

101	Convex Certificates for Model (In)validation of Switched Affine Systems With Unknown Switches. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 2921-2932	5.9	21
100	Robust performance with fixed and worst-case signals for uncertain time-varying systems. <i>Automatica</i> , 1997 , 33, 2183-2189	5.7	20
99	Receding Horizon Control Lyapunov Function Approach to Suboptimal Regulation of Nonlinear Systems. <i>Journal of Guidance, Control, and Dynamics</i> , 2000 , 23, 399-405	2.1	20
98	A convex optimization approach to fixed-order controller design for disturbance rejection in SISO systems. <i>IEEE Transactions on Automatic Control</i> , 2000 , 45, 784-789	5.9	19
97	Control of constrained discrete time linear systems using quantized controls. <i>Automatica</i> , 1989 , 25, 623-628	5.7	19
96	Robust controller design for a parallel resonant converter using μ -synthesis. <i>IEEE Transactions on Power Electronics</i> , 1997 , 12, 837-853	7.2	18
95	A parametric extension of mixed time/frequency robust identification. <i>IEEE Transactions on Automatic Control</i> , 1999 , 44, 364-369	5.9	18
94	Fast algorithms for structured robust principal component analysis 2012 ,		17
93	An algorithm for sampling subsets of H_{∞} with applications to risk-adjusted performance analysis and model (in)validation. <i>IEEE Transactions on Automatic Control</i> , 2005 , 50, 410-416	5.9	17
92	. <i>IEEE Transactions on Automatic Control</i> , 1998 , 43, 1229-1241	5.9	17
91	A Moments Based Approach to Designing MIMO Data Driven Controllers for Switched Systems 2018 ,		17
90	A computer vision approach to rare cell in vivo fluorescence flow cytometry. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2013 , 83, 1113-23	4.6	16
89	An exact solution to general four-block discrete-time mixed H_{∞}/H_2 problems via convex optimization. <i>IEEE Transactions on Automatic Control</i> , 1998 , 43, 1475-1480	5.9	16
88	. <i>IEEE Transactions on Control Systems Technology</i> , 2001 , 9, 608-617	4.8	16
87	. <i>IEEE Transactions on Automation Science and Engineering</i> , 1989 , 5, 253-259		15
86	Model (in) validation of switched ARX systems with unknown switches and its application to activity monitoring 2010 ,		13
85	A risk adjusted approach to robust simultaneous fault detection and isolation. <i>Automatica</i> , 2007 , 43, 499-504	5.7	13
84	Mixed H_2/H_{∞} control of multimodel plants. <i>Journal of Guidance, Control, and Dynamics</i> , 1995 , 18, 525-531	2.1	13

83	Mixed controllers for SISO discrete time systems. <i>Systems and Control Letters</i> , 1994 , 23, 179-186	2.4	13
82	Fast Structured Nuclear Norm Minimization With Applications to Set Membership Systems Identification. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 2837-2842	5.9	12
81	A Convex Optimization Approach to Synthesizing Bounded Complexity ℓ^{∞} Filters. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 216-221	5.9	12
80	A convex approach to robust performance analysis. <i>Automatica</i> , 2002 , 38, 957-966	5.7	12
79	A linear matrix inequality approach to synthesizing low-order suboptimal mixed H_2/H_∞ controllers. <i>Automatica</i> , 2000 , 36, 957-963	5.7	12
78	An exact solution to continuous-time mixed H_2/H_∞ control problems. <i>IEEE Transactions on Automatic Control</i> , 2000 , 45, 2095-2101	5.9	12
77	. <i>IEEE Transactions on Automatic Control</i> , 1994 , 39, 1497-1502	5.9	12
76	An algorithm for fast constrained nuclear norm minimization and applications to systems identification 2012 ,		11
75	Sparse static output feedback controller design via convex optimization 2014 ,		10
74	L_1 Optimal control of SISO continuous-time systems. <i>Automatica</i> , 1997 , 33, 85-90	5.7	10
73	Sequential sparsification for change detection 2008 ,		10
72	Convex Optimization Approaches to Information Structured Decentralized Control. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 3393-3403	5.9	9
71	A Randomized Algorithm for Parsimonious Model Identification. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 532-539	5.9	9
70	. <i>IEEE Transactions on Automatic Control</i> , 2003 , 48, 355-368	5.9	9
69	A Semi-Algebraic Optimization Approach to Data-Driven Control of Continuous-Time Nonlinear Systems 2021 , 5, 487-492		9
68	An efficient atomic norm minimization approach to identification of low order models 2013 ,		8
67	Risk Adjusted Set Membership Identification of Wiener Systems. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 1147-1152	5.9	8
66	Robust Identification of 2-D Periodic Systems with Applications to Texture Synthesis and Classification 2006 ,		8

65	Rational L_1 -suboptimal controllers for SISO continuous-time systems. <i>IEEE Transactions on Automatic Control</i> , 1996 , 41, 1358-1363	5.9	8
64	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 1996 , 32, 702-713	3.7	8
63	DYAN: A Dynamical Atoms-Based Network for Video Prediction. <i>Lecture Notes in Computer Science</i> , 2018 , 175-191	0.9	8
62	Subspace Clustering with Priors via Sparse Quadratically Constrained Quadratic Programming 2016 ,		7
61	Probabilistic Optimal Estimation With Uniformly Distributed Noise. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 2113-2127	5.9	7
60	Parsimonious model identification via atomic norm minimization 2014 ,		7
59	Finding Causal Interactions in Video Sequences 2013 ,		7
58	A convex optimization approach to model (in)validation of switched ARX systems with unknown switches 2012 ,		7
57	Open-loop worst-case identification of nonSchur plants. <i>Automatica</i> , 2003 , 39, 1019-1025	5.7	7
56	Robust unconstrained predictive control design with guaranteed nominal performance. <i>AICHE Journal</i> , 1996 , 42, 1293-1303	3.6	7
55	Mixed L_1 - H_2 -suboptimal controllers for SISO continuous-time systems. <i>IEEE Transactions on Automatic Control</i> , 1995 , 40, 1831-1840	5.9	7
54	. <i>IEEE Transactions on Automatic Control</i> , 1992 , 37, 1057-1062	5.9	7
53	An analog neural net-based suboptimal controller for constrained discrete-time linear systems. <i>Automatica</i> , 1992 , 28, 139-144	5.7	7
52	Low order dynamics embedding for high dimensional time series 2011 ,		6
51	An improved Voronoi-diagram-based neural net for pattern classification. <i>IEEE Transactions on Neural Networks</i> , 2001 , 12, 1227-34		6
50	. <i>IEEE Transactions on Automatic Control</i> , 1995 , 40, 552-557	5.9	6
49	Convex relaxations for robust identification of Wiener systems and applications 2011 ,		5
48	Risk Adjusted Identification of Wiener Systems 2006 ,		5

47	On the design of robust controllers for arbitrary uncertainty structures. <i>IEEE Transactions on Automatic Control</i> , 2003 , 48, 2061-2065	5.9	5
46	Robust controller design for a non-colocated spring-mass system via mixed H_2/H_∞ optimization. <i>International Journal of Robust and Nonlinear Control</i> , 1995 , 5, 53-65	3.6	5
45	SoS-RSC: A Sum-of-Squares Polynomial Approach to Robustifying Subspace Clustering Algorithms 2018 ,		5
44	moM: Mean of Moments Feature for Person Re-identification 2017 ,		4
43	An obstacle avoidance and motion planning Command Governor based scheme: The Qball-X4 quadrotor case of study 2014 ,		4
42	Dynamics-based extraction of information sparsely encoded in high dimensional data streams 2010 ,		4
41	Convex necessary and sufficient conditions for frequency domain model (in)validation under SLTV structured uncertainty. <i>IEEE Transactions on Automatic Control</i> , 2004 , 49, 1683-1692	5.9	4
40	Is set modeling of white noise a good tool for robust H_2 analysis?. <i>Automatica</i> , 2000 , 36, 261-267	5.7	4
39	Data Driven Robust Superstable Control of Switched Systems. <i>IFAC-PapersOnLine</i> , 2018 , 51, 402-408	0.7	4
38	Robust Superstabilizing Controller Design from Open-Loop Experimental Input/Output Data**This work was supported in part by NSF grants IIS-1318145 and ECCS-1404163; AFOSR grant FA9550-12-1-0271, and the Alert DHS Center of Excellence under Award Number 2008-ST-061-ED0001. <i>IFAC-PapersOnLine</i> , 2015 , 48, 1337-1342	0.7	3
37	Hankel based maximum margin classifiers: A connection between machine learning and Wiener systems identification 2013 ,		3
36	A rank minimization approach to trajectory (in)validation 2011 ,		3
35	Cross-view activity recognition using Hankellets 2012 ,		3
34	Heuristically enhanced feedback control of constrained systems: The minimum time case. <i>Automatica</i> , 1993 , 29, 439-444	5.7	3
33	Peak Estimation Recovery and Safety Analysis 2021 , 5, 1982-1987		3
32	Control Oriented Learning in the Era of Big Data 2021 , 5, 1855-1867		3
31	Hankel Matrix Rank as Indicator of Ghost in Bearing-only Tracking. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2018 , 54, 2713-2723	3.7	2
30	An efficient approach to the radar ghost elimination problem 2016 ,		2

29	Using dynamics to recover Euclidian 3-dimensional structure from 2-dimensional perspective projections 2009 ,		2
28	Fast track matching and event detection 2008 ,		2
27	A pessimistic approach to frequency domain model (in)validation 2007 ,		2
26	Robust control of constrained systems via convex optimization. <i>International Journal of Robust and Nonlinear Control</i> , 1995 , 5, 441-460	3.6	2
25	Data-Driven Quadratic Stabilization of Continuous LTI Systems. <i>IFAC-PapersOnLine</i> , 2020 , 53, 3965-3970	0.7	2
24	Key Frame Proposal Network for Efficient Pose Estimation in Videos. <i>Lecture Notes in Computer Science</i> , 2020 , 609-625	0.9	2
23	A super-atomic norm minimization approach to identifying sparse dynamical graphical models 2016 ,		2
22	Solving Temporal Puzzles 2016 ,		2
21	System Identification Algorithm for Non-Uniformly Sampled Data. <i>IFAC-PapersOnLine</i> , 2017 , 50, 7296-7301		1
20	Identification of a class of generalized autoregressive conditional heteroskedasticity (GARCH) models with applications to covariance propagation 2015 ,		1
19	Efficient identification of Wiener systems using a combination of atomic norm minimization and interval matrix properties 2015 ,		1
18	The Interplay Between Big Data and Sparsity in Systems Identification: Some Lessons from Machine Learning**This work was supported in part by NSF grants IIS-1318145 and ECCS-1404163; AFOSR grant FA9550-12-1-0271, and the Alert DHS Center of Excellence under Award Number 2008-57-0-01-550001. <i>IFAC-PapersOnLine</i> , 2015 , 48, 1225-1230	0.7	1
17	A moments-based approach to estimation and data interpolation for a class of Wiener systems 2010 ,		1
16	A convex optimization approach to synthesizing bounded complexity filters 2009 ,		1
15	Identification and model (in)validation of switched ARX systems: A moment-based approach 2011 , 347-379		1
14	Decomposed Structured Subsets for Semidefinite Optimization. <i>IFAC-PapersOnLine</i> , 2020 , 53, 7374-7379	0.7	1
13	Continuous-time model identification: application on a behavioural (miLife) study. <i>International Journal of Control</i> , 2020 , 1-12	1.5	1
12	A Loewner Matrix Based Convex Optimization Approach to Finding Low Rank Mixed Time/Frequency Domain Interpolants 2020 ,		1

11	Efficient Identification of Error-in-Variables Switched Systems via a Sum-of-Squares Polynomial Based Subspace Clustering Method 2019 ,		1
10	Unsupervised Fault Detection of Refrigeration Containers using a Mahalanobis Inverse Moment Matrix Polynomial. <i>IFAC-PapersOnLine</i> , 2018 , 51, 249-254	0.7	1
9	Decomposed structured subsets for semidefinite and sum-of-squares optimization. <i>Automatica</i> , 2022 , 137, 110125	5.7	0
8	On Identification of Nonlinear ARX Models with Sparsity in Regressors and Basis Functions. <i>IFAC-PapersOnLine</i> , 2021 , 54, 720-725	0.7	0
7	A convex optimization approach to synthesizing state feedback data-driven controllers for switched linear systems. <i>Automatica</i> , 2022 , 139, 110190	5.7	0
6	Suboptimal H_2 Control of Switched Linear Models: a Superstability Approach * *This work was supported in part by NSF grants IIS1318145, ECCS1404163, CMMI1638234 CNS-1329422 and ECCS-1201973; AFOSR grant FA9550-15-1-0392; and the Alert DHS Center of Excellence under Award Number: 2018-CT-061-ED0001. <i>IFAC-PapersOnLine</i> , 2017 , 50, 11288-11295	0.7	
5	Call for Papers: Special Issue on System Identification for Biological Systems <i>International Journal of Robust and Nonlinear Control</i> , 2010 , 20, 842-842	3.6	
4	Correspondence Comments on Robust optimal parametric LQ control with a guaranteed cost bound and applications <i>International Journal of Control</i> , 1991 , 54, 1309-1312	1.5	
3	An Algebraic Approach to Efficient Identification of a Class of Wiener Systems. <i>IFAC-PapersOnLine</i> , 2020 , 53, 1138-1143	0.7	
2	Set-Induced Norm Based Robust Control Techniques. <i>Control and Dynamic Systems</i> , 1993 , 55, 305-353		
1	An Atomic Norm Minimization Framework for Identification of Parameter Varying Nonlinear ARX Models. <i>IFAC-PapersOnLine</i> , 2019 , 52, 1-6	0.7	