

Moshe Idan

List of Publications by Year in descending order

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58
papers

1,563
citations

516710

16
h-index

526287

27
g-index

59
all docs

59
docs citations

59
times ranked

722
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive output feedback control of nonlinear systems using neural networks. <i>Automatica</i> , 2001, 37, 1201-1211.	5.0	400
2	Sliding-Mode Control for Integrated Missile Autopilot Guidance. <i>Journal of Guidance, Control, and Dynamics</i> , 2006, 29, 250-260.	2.8	306
3	Integrated Sliding Mode Autopilot-Guidance for Dual-Control Missiles. <i>Journal of Guidance, Control, and Dynamics</i> , 2007, 30, 1081-1089.	2.8	141
4	Adaptive Neural Control of Deep-Space Formation Flying. <i>Journal of Guidance, Control, and Dynamics</i> , 2003, 26, 491-501.	2.8	87
5	Optimal planar interception with terminal constraints. <i>Journal of Guidance, Control, and Dynamics</i> , 1995, 18, 1273-1279.	2.8	63
6	Cauchy Estimation for Linear Scalar Systems. <i>IEEE Transactions on Automatic Control</i> , 2010, 55, 1329-1342.	5.7	55
7	H2/H ∞ filtering theory and an aerospace application. <i>International Journal of Robust and Nonlinear Control</i> , 1996, 6, 347-366.	3.7	54
8	Integrated Sliding Mode Guidance and Control for Missile with On-Off Actuators. <i>Journal of Guidance, Control, and Dynamics</i> , 2008, 31, 204-214.	2.8	52
9	Hierarchical Approach to Adaptive Control for Improved Flight Safety. <i>Journal of Guidance, Control, and Dynamics</i> , 2002, 25, 1012-1020.	2.8	42
10	Aeroservoelastic Interaction Between Aircraft Structural and Control Design Schemes. <i>Journal of Guidance, Control, and Dynamics</i> , 1999, 22, 513-519.	2.8	39
11	Effect of Estimation on the Performance of an Integrated Missile Guidance and Control System. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2011, 47, 2690-2708.	4.7	39
12	Aeroservoelastic Structural and Control Optimization Using Robust Design Schemes. <i>Journal of Guidance, Control, and Dynamics</i> , 2002, 25, 152-159.	2.8	36
13	Continuous Variable Speed Wind Turbine: Transmission Concept and Robust Control. <i>Wind Engineering</i> , 2000, 24, 151-167.	1.9	34
14	Robust Aeroservoelastic Design with Structural Variations and Modeling Uncertainties. <i>Journal of Aircraft</i> , 2003, 40, 946-954.	2.4	29
15	Multivariate Cauchy Estimator with Scalar Measurement and Process Noises. <i>SIAM Journal on Control and Optimization</i> , 2014, 52, 1108-1141.	2.1	24
16	State Estimation for Linear Scalar Dynamic Systems with Additive Cauchy Noises: Characteristic Function Approach. <i>SIAM Journal on Control and Optimization</i> , 2012, 50, 1971-1994.	2.1	20
17	Stochastic Estimation for Two-State Linear Dynamic Systems With Additive Cauchy Noises. <i>IEEE Transactions on Automatic Control</i> , 2015, 60, 3367-3372.	5.7	16
18	Deformation Control of Highly Flexible Aircraft in Trimmed Flight and Gust Encounter. <i>Journal of Aircraft</i> , 2018, 55, 829-840.	2.4	15

#	ARTICLE	IF	CITATIONS
19	Robust control design strategy with parameter-dominated uncertainty. Journal of Guidance, Control, and Dynamics, 1996, 19, 605-611.	2.8	11
20	Preview Control Approach for Laser-Range-Finder-Based Terrain Following. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 1318-1331.	4.7	11
21	Efficient air traffic conflict resolution by minimizing the number of affected aircraft. International Journal of Adaptive Control and Signal Processing, 2010, 24, 867-881.	4.1	7
22	Stochastic Control for Linear Systems With Additive Cauchy Noises. IEEE Transactions on Automatic Control, 2015, 60, 3373-3378.	5.7	7
23	Aeroservoelastic design process using structural optimization and robust control methods. , 2000, , .		6
24	Multi-step prediction optimal control for a scalar linear system with additive Cauchy noise. , 2010, , .		6
25	The two-state estimator for linear systems with additive measurement and process Cauchy noise. , 2012, , .		6
26	Multivariate Cauchy estimator with scalar measurement and process noises. , 2013, , .		6
27	Laplace Estimator for Linear Scalar Systems. , 2018, , .		6
28	A stochastic controller for vector linear systems with additive cauchy noises. , 2013, , .		5
29	A stochastic controller for a scalar linear system with additive Cauchy noise. Automatica, 2014, 50, 114-127.	5.0	5
30	An estimation approach for linear stochastic systems based on characteristic functions. Automatica, 2017, 78, 153-162.	5.0	5
31	Effect of Estimation on the Performance of an Integrated Missile Guidance and Control System. , 2008, , .		4
32	Cauchy estimation for linear scalar systems. , 2008, , .		4
33	Robust control design for uncertain aeroservoelastic systems using reduced order models. , 2001, , .		3
34	Optimal control for a scalar one-step linear system with additive Cauchy noise. , 2010, , .		3
35	Approximate Estimators for Linear Systems with Additive Cauchy Noises. Journal of Guidance, Control, and Dynamics, 2017, 40, 2820-2827.	2.8	3
36	Aeroservoelastic structural and control optimization using classical and modern robust design schemes. , 2000, , .		3

#	ARTICLE	IF	CITATIONS
37	Laplace One-Step Controller for Linear Scalar Systems. , 2018, , .		2
38	Maximum Conditional Probability Stochastic Controller for Scalar Linear Systems with Additive Cauchy Noises. , 2018, , .		2
39	Tactical Replanning Algorithms for Four-Dimensional Contracts in Air Traffic Control. Journal of Guidance, Control, and Dynamics, 2015, 38, 1050-1062.	2.8	1
40	State estimation for linear systems with additive cauchy noises: Optimal and suboptimal approaches. , 2016, , .		1
41	Laplace Controller for Linear Scalar Systems. , 2019, , .		1
42	Characteristic Function Approach for Estimation of Scalar Systems with Cauchy Noises. , 2010, , .		1
43	Distributed Computation of a Robust Estimator Based on Cauchy Noises. , 2021, , .		1
44	Laplace estimation for scalar linear systems. Automatica, 2022, 144, 110301.	5.0	1
45	Robust autopilot design strategy for functionally dependent parameter uncertainties. International Journal of Robust and Nonlinear Control, 1998, 8, 113-128.	3.7	0
46	An Adaptive Output Feedback Control Methodology: Theory and Practical Implementation Aspects. , 2002, , .		0
47	Adaptive Output Feedback Control Methodology: Theory and Practical Implementation Aspects. Journal of Guidance, Control, and Dynamics, 2004, 27, 710-715.	2.8	0
48	Characteristic function approach to estimation of linear stochastic systems. , 2016, , .		0
49	Efficient Cauchy estimation via a pre-computational technique. , 2016, , .		0
50	Elastic Deformations Control of Highly Flexible Aircraft in Trimmed Flight and Gust Encounter. , 2017, , .		0
51	Characteristic Function Approach to Smoothing of Linear Scalar Systems with Additive Cauchy Noises. , 2019, , .		0
52	Adaptive Laser-Range-Finder Terrain-Following Approach. , 2019, , .		0
53	Planetary Flyby Attitude Estimation in an Intense Radiation Background Based on Cauchy Uncertainty. , 2019, , .		0
54	A Stochastic Controller Maximizing the Conditional Probability Density for Linear Systems with Additive Cauchy Noises. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
55	Properties of the Characteristic Function Generator of the Two-State Cauchy Estimator. SIAM Journal on Control and Optimization, 2019, 57, 3639-3665.	2.1	0
56	Maximum Conditional Probability Stochastic Controller for Linear Systems with Additive Cauchy Noises. Journal of Optimization Theory and Applications, 2020, , 1.	1.5	0
57	Control and Estimation for Coordinated Transport of an Unknown Slung Load by a Team of Multicopters. , 2022, , .		0
58	Sensitivity of Robust Flutter Suppression to Control Design Specifications. , 2022, , .		0