

Eyad H Abed

List of Publications by Year in descending order

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87
papers

2,549
citations

331670

21
h-index

265206

42
g-index

92
all docs

92
docs citations

92
times ranked

925
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy modeling and control for improved engine stability and efficiency in air vehicles. Annual Reviews in Control, 2021, 52, 358-358.	7.9	0
2	Local modal participation analysis of nonlinear systems using Poincaré linearization. Nonlinear Dynamics, 2020, 99, 803-811.	5.2	11
3	Automation: A New Open-Access Journal with a Broad Scope and an Exciting Mission. Automation, 2020, 1, 66-67.	2.3	0
4	Optimizing Leader Influence in Networks Through Selection of Direct Followers. IEEE Transactions on Automatic Control, 2019, 64, 1280-1287.	5.7	16
5	Distributed optimization over directed graphs with row stochasticity and constraint regularity. Automatica, 2019, 102, 94-104.	5.0	60
6	Linear Power Modeling for Cloud Data Centers: Taxonomy, Locally Corrected Linear Regression, Simulation Framework and Evaluation. IEEE Access, 2019, 7, 175003-175019.	4.2	18
7	Linear Convergence in Optimization Over Directed Graphs With Row-Stochastic Matrices. IEEE Transactions on Automatic Control, 2018, 63, 3558-3565.	5.7	128
8	Local Prediction for Enhanced Convergence of Distributed Optimization Algorithms. IEEE Transactions on Control of Network Systems, 2018, 5, 1962-1975.	3.7	13
9	Feedback Control of Bifurcation and Chaos in Dynamical Systems. , 2018, , 153-173.		8
10	Consensus prediction in minimum time. , 2017, , .		0
11	Distributed optimization over weighted directed graphs using row stochastic matrix. , 2016, , .		17
12	Dynamic consensus measure and optimal selection of direct followers in multiagent networks. , 2016, , .		1
13	Opinion Dynamics with Persistent Leaders. , 2014, , .		2
14	Using participation factors to improve the consistency and accuracy of Prony analysis for voltage stability monitoring applications. , 2014, , .		1
15	Local mode-in-state participation factors for nonlinear systems. , 2014, , .		3
16	Stability Analysis and Control of Supercavitating Vehicles With Advection Delay. Journal of Computational and Nonlinear Dynamics, 2013, 8, .	1.2	26
17	Non-Steady Planing and Advection Delay Effects on the Dynamics and Control of Supercavitating Vehicles. , 2011, , .		1
18	Absolute Stability of Second-Order Systems With Asymmetric Sector Boundaries. IEEE Transactions on Automatic Control, 2010, 55, 458-463.	5.7	11

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19	Mode in output participation factors for linear systems. , 2010, , .		5
20	Delay Effects in Supercavitating Vehicle Dynamics. , 2009, , .		3
21	Modal participation factors revisited: One definition replaced by two. , 2009, , .		5
22	Stability analysis for communication of voice terminals with packet reservation multiple access protocol with high propagation delays using state estimation. , 2009, , .		0
23	Stability analysis for communication of voice and data terminals with packet reservation multiple access protocol using state estimation. , 2009, , .		0
24	New Results on Modal Participation Factors: Revealing a Previously Unknown Dichotomy. IEEE Transactions on Automatic Control, 2009, 54, 1439-1449.	5.7	59
25	Price based bifurcation control for finite buffered slotted ALOHA protocol with finite users. , 2008, , .		0
26	Dynamics and Control of Supercavitating Vehicles. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2008, 130, .	1.6	36
27	Stability analysis for communication of voice terminals with packet reservation multiple access protocol with high propagation delays. , 2008, , .		4
28	Stability analysis for communication of voice terminals with packet reservation multiple access protocol. , 2008, , .		4
29	Stability Analysis for Communication of Voice and Data Terminals with Packet Reservation Multiple Access Protocol. , 2008, , .		0
30	Bifurcation Control in PRMA Joint Voice-Data System using Multiple Transmission Power Levels. , 2007, , .		4
31	A robust orbit-steering and control algorithm using quadrupole-scans as a diagnostic. , 2007, , .		0
32	BIFURCATION CONTROL: NEW DIRECTIONS MOTIVATED BY BIOLOGY AND COMPLEX ENGINEERED SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 757-763.	0.4	3
33	Nonlinear Dynamics and Bifurcations of a Supercavitating Vehicle. IEEE Journal of Oceanic Engineering, 2007, 32, 753-761.	3.8	38
34	Lyapunov and LMI analysis and feedback control of border collision bifurcations. Nonlinear Dynamics, 2007, 50, 373-386.	5.2	11
35	Bifurcation Behavior of a Supercavitating Vehicle. , 2006, , 293.		6
36	SIGNAL-BASED INSTABILITY MONITORING OF ELECTRIC POWER SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 79-84.	0.4	0

#	ARTICLE	IF	CITATIONS
37	Instability Monitoring and Control of Power Systems. , 2005, , 159-178.		1
38	Observation of noise-induced transitions in radar range tracking systems. AIP Conference Proceedings, 2005, , .	0.4	0
39	Robust Dangerous Border-Collision Bifurcations in Piecewise Smooth Systems. Physical Review Letters, 2004, 92, 070201.	7.8	45
40	BORDER COLLISION BIFURCATION CONTROL OF CARDIAC ALTERNANS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 3303-3315.	1.7	15
41	LOCAL FEEDBACK CONTROL OF THE NEIMARK-SMALLER BIFURCATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 879-893.	1.7	13
42	<title>Nonlinearity of TCP and instability with RED</title>. , 2002, 4865, 283.		10
43	High-gain feedback control of rotating stall in axial flow compressors. Automatica, 2002, 38, 995-1001.	5.0	17
44	Robust Feedback Stabilization of Limit Cycles in PWM DC-DC Converters. Nonlinear Dynamics, 2002, 27, 295-309.	5.2	23
45	Monitoring and Control of Bifurcations Using Probe Signals. , 2002, , 51-65.		1
46	Stationary bifurcation control of systems with uncontrollable linearization. International Journal of Control, 2001, 74, 445-452.	1.9	9
47	Sampled-data modelling and analysis of the power stage of PWM DC-DC converters. International Journal of Electronics, 2001, 88, 347-369.	1.4	26
48	On participation factors for linear systems. Automatica, 2000, 36, 1489-1496.	5.0	31
49	Closed-Loop Stability Monitoring of Axial Flow Compression Systems. Nonlinear Dynamics, 1999, 20, 181-196.	5.2	4
50	Active control of compressor stall inception: a bifurcation-theoretic approach. Automatica, 1996, 32, 109-115.	5.0	146
51	Harmonic balance analysis of period-doubling bifurcations with implications for control of nonlinear dynamics. Automatica, 1996, 32, 1255-1271.	5.0	121
52	Bifurcation analysis of nonuniform flow patterns in axial-flow gas compressors. , 1996, , 1597-1608.		18
53	Stochastic stability and bifurcation analysis of gated radar trackers. , 1996, , 2931-2942.		0
54	<title>Modal participation in the stability analysis and control of multistage compression systems</title>. , 1995, , .		0

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55	Bifurcation control of a chaotic system. <i>Automatica</i> , 1995, 31, 1213-1226.	5.0	179
56	Bifurcation-Theoretic Issues in the Control of Voltage Collapse. <i>The IMA Volumes in Mathematics and Its Applications</i> , 1995, , 1-21.	0.5	15
57	Stabilization of period doubling bifurcations and implications for control of chaos. <i>Physica D: Nonlinear Phenomena</i> , 1994, 70, 154-164.	2.8	118
58	Linear feedback stabilization of nonlinear systems with an uncontrollable critical mode. <i>Automatica</i> , 1993, 29, 999-1010.	5.0	22
59	Families of Lyapunov functions for nonlinear systems in critical cases. <i>IEEE Transactions on Automatic Control</i> , 1993, 38, 3-16.	5.7	43
60	Control of Nonlinear Phenomena at the Inception of Voltage Collapse. , 1993, , .		24
61	Controlling Chaos and Targeting in a Thermal Convection Loop. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1992, 25, 494-497.	0.4	0
62	Stochastic stability analysis of nonlinear gated radar range trackers. , 1992, , 225-239.		1
63	Is Voltage Collapse Triggered by the Boundary Crisis of a Strange Attractor?. , 1992, , .		8
64	Controlling Chaos and Targeting in a Thermal Convection Loop. , 1992, , 494-497.		0
65	Washout Filters in the Bifurcation Control of High Alpha Flight Dynamics. , 1991, , .		44
66	Maximal range for generalized stabilityâ€™ application to physically motivated examples. <i>International Journal of Control</i> , 1991, 53, 837-845.	1.9	9
67	Two-Parameter Bifurcation Analysis of Axial Flow Compressor Dynamics. , 1991, , .		3
68	Guardian maps and the generalized stability of parametrized families of matrices and polynomials. <i>Mathematics of Control, Signals, and Systems</i> , 1990, 3, 345-371.	2.3	124
69	Bifurcation Analysis of Surge and Rotating Stall in Axial Flow Compressors. , 1990, , .		6
70	Nonlinear Stabilization of High Angle-of-Attack Flight Dynamics using Bifurcation Control. , 1990, , .		13
71	Robust Stability via the Guardian Map Approach: A Perspective. , 1990, , .		1
72	On Nonlinear Station-Keeping Control of Tethered Satellites. , 1990, , .		0

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73	Nonlinear stabilizing control of high angle of attack flight dynamics. , 1989, , 140-149.		5
74	Nonlinear stabilizing control of high angle of attack flight dynamics. , 1989, , .		2
75	A Simple Proof of Stability on the Center Manifold for Hopf Bifurcation. SIAM Review, 1988, 30, 487-491.	9.5	10
76	Local feedback stabilization and bifurcation control, II. Stationary bifurcation. Systems and Control Letters, 1987, 8, 467-473.	2.3	232
77	Decomposition and stability for multiparameter singular perturbation problems. IEEE Transactions on Automatic Control, 1986, 31, 925-934.	5.7	21
78	Local feedback stabilization and bifurcation control, I. Hopf bifurcation. Systems and Control Letters, 1986, 7, 11-17.	2.3	342
79	Strong D-stability. Systems and Control Letters, 1986, 7, 207-212.	2.3	22
80	On the stability of multiple time-scale systems. International Journal of Control, 1986, 44, 211-218.	1.9	18
81	New results in multiparameter singular perturbations. , 1986, , .		1
82	Bifurcation Control and Feedback Stabilizatio. , 1986, , .		6
83	Multiparameter singular perturbation problems: Iterative expansions and asymptotic stability. Systems and Control Letters, 1985, 5, 279-282.	2.3	22
84	A new parameter estimate in singular perturbations. Systems and Control Letters, 1985, 6, 193-198.	2.3	19
85	Singularly perturbed Hopf bifurcation. IEEE Transactions on Circuits and Systems, 1985, 32, 1270-1280.	0.9	25
86	A new parameter estimate in singular perturbations. , 1985, , .		1
87	Nonlinear oscillations in power systems. International Journal of Electrical Power and Energy Systems, 1984, 6, 37-43.	5.5	209