

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	Local feedback stabilization and bifurcation control, I. Hopf bifurcation. Systems and Control Letters, 1986, 7, 11-17.	2.3	342
2	Local feedback stabilization and bifurcation control, II. Stationary bifurcation. Systems and Control Letters, 1987, 8, 467-473.	2.3	232
3	Nonlinear oscillations in power systems. International Journal of Electrical Power and Energy Systems, 1984, 6, 37-43.	5.5	209
4	Bifurcation control of a chaotic system. Automatica, 1995, 31, 1213-1226.	5.0	179
5	Active control of compressor stall inception: a bifurcation-theoretic approach. Automatica, 1996, 32, 109-115.	5.0	146
6	Linear Convergence in Optimization Over Directed Graphs With Row-Stochastic Matrices. IEEE Transactions on Automatic Control, 2018, 63, 3558-3565.	5.7	128
7	Guardian maps and the generalized stability of parametrized families of matrices and polynomials. Mathematics of Control, Signals, and Systems, 1990, 3, 345-371.	2.3	124
8	Harmonic balance analysis of period-doubling bifurcations with implications for control of nonlinear dynamics. Automatica, 1996, 32, 1255-1271.	5.0	121
9	Stabilization of period doubling bifurcations and implications for control of chaos. Physica D: Nonlinear Phenomena, 1994, 70, 154-164.	2.8	118
10	Distributed optimization over directed graphs with row stochasticity and constraint regularity. Automatica, 2019, 102, 94-104.	5.0	60
11	New Results on Modal Participation Factors: Revealing a Previously Unknown Dichotomy. IEEE Transactions on Automatic Control, 2009, 54, 1439-1449.	5.7	59
12	Robust Dangerous Border-Collision Bifurcations in Piecewise Smooth Systems. Physical Review Letters, 2004, 92, 070201.	7.8	45
13	Washout Filters in the Bifurcation Control of High Alpha Flight Dynamics. , 1991, , .		44
14	Families of Lyapunov functions for nonlinear systems in critical cases. IEEE Transactions on Automatic Control, 1993, 38, 3-16.	5.7	43
15	Nonlinear Dynamics and Bifurcations of a Supercavitating Vehicle. IEEE Journal of Oceanic Engineering, 2007, 32, 753-761.	3.8	38
16	Dynamics and Control of Supercavitating Vehicles. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2008, 130, .	1.6	36
17	On participation factors for linear systems. Automatica, 2000, 36, 1489-1496.	5.0	31
18	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

#	ARTICLE	IF	CITATIONS
19	Stability Analysis and Control of Supercavitating Vehicles With Advection Delay. Journal of Computational and Nonlinear Dynamics, 2013, 8, .	1.2	26
20	Singularly perturbed Hopf bifurcation. IEEE Transactions on Circuits and Systems, 1985, 32, 1270-1280.	0.9	25
21	Control of Nonlinear Phenomena at the Inception of Voltage Collapse. , 1993, , .		24
22	Robust Feedback Stabilization of Limit Cycles in PWM DC-DC Converters. Nonlinear Dynamics, 2002, 27, 295-309.	5.2	23
23	Multiparameter singular perturbation problems: iterative expansions and asymptotic stability. Systems and Control Letters, 1985, 5, 279-282.	2.3	22
24	Strong D-stability. Systems and Control Letters, 1986, 7, 207-212.	2.3	22
25	Linear feedback stabilization of nonlinear systems with an uncontrollable critical mode. Automatica, 1993, 29, 999-1010.	5.0	22
26	Decomposition and stability for multiparameter singular perturbation problems. IEEE Transactions on Automatic Control, 1986, 31, 925-934.	5.7	21
27	A new parameter estimate in singular perturbations. Systems and Control Letters, 1985, 6, 193-198.	2.3	19
28	On the stability of multiple time-scale systems. International Journal of Control, 1986, 44, 211-218.	1.9	18
29	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
30	Bifurcation analysis of nonuniform flow patterns in axial-flow gas compressors. , 1996, , 1597-1608.		18
31	High-gain feedback control of rotating stall in axial flow compressors. Automatica, 2002, 38, 995-1001.	5.0	17
32	Distributed optimization over weighted directed graphs using row stochastic matrix. , 2016, , .		17
33	Optimizing Leader Influence in Networks Through Selection of Direct Followers. IEEE Transactions on Automatic Control, 2019, 64, 1280-1287.	5.7	16
34	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
35	Bifurcation-Theoretic Issues in the Control of Voltage Collapse. The IMA Volumes in Mathematics and Its Applications, 1995, , 1-21.	0.5	15
36	Nonlinear Stabilization of High Angle-of-Attack Flight Dynamics using Bifurcation Control. , 1990, , .		13

#	ARTICLE	IF	CITATIONS
37	LOCAL FEEDBACK CONTROL OF THE NEIMARK-SACKER BIFURCATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 879-893.	1.7	13
38	Local Prediction for Enhanced Convergence of Distributed Optimization Algorithms. IEEE Transactions on Control of Network Systems, 2018, 5, 1962-1975.	3.7	13
39	Lyapunov and LMI analysis and feedback control of border collision bifurcations. Nonlinear Dynamics, 2007, 50, 373-386.	5.2	11
40	Absolute Stability of Second-Order Systems With Asymmetric Sector Boundaries. IEEE Transactions on Automatic Control, 2010, 55, 458-463.	5.7	11
41	Local modal participation analysis of nonlinear systems using Poincaré linearization. Nonlinear Dynamics, 2020, 99, 803-811.	5.2	11
42	A Simple Proof of Stability on the Center Manifold for Hopf Bifurcation. SIAM Review, 1988, 30, 487-491.	9.5	10
43	<title>Nonlinearity of TCP and instability with RED</title>. , 2002, 4865, 283.		10
44	Maximal range for generalized stability application to physically motivated examples. International Journal of Control, 1991, 53, 837-845.	1.9	9
45	Stationary bifurcation control of systems with uncontrollable linearization. International Journal of Control, 2001, 74, 445-452.	1.9	9
46	Is Voltage Collapse Triggered by the Boundary Crisis of a Strange Attractor?. , 1992, , .		8
47	Feedback Control of Bifurcation and Chaos in Dynamical Systems. , 2018, , 153-173.		8
48	Bifurcation Analysis of Surge and Rotating Stall in Axial Flow Compressors. , 1990, , .		6
49	Bifurcation Behavior of a Supercavitating Vehicle. , 2006, , 293.		6
50	Bifurcation Control and Feedback Stabilization. , 1986, , .		6
51	Nonlinear stabilizing control of high angle of attack flight dynamics. , 1989, , 140-149.		5
52	Modal participation factors revisited: One definition replaced by two. , 2009, , .		5
53	Mode in output participation factors for linear systems. , 2010, , .		5
54	Closed-Loop Stability Monitoring of Axial Flow Compression Systems. Nonlinear Dynamics, 1999, 20, 181-196.	5.2	4

#	ARTICLE	IF	CITATIONS
55	Bifurcation Control in PRMA Joint Voice-Data System using Multiple Transmission Power Levels. , 2007, , .		4
56	Stability analysis for communication of voice terminals with packet reservation multiple access protocol with high propagation delays. , 2008, , .		4
57	Stability analysis for communication of voice terminals with packet reservation multiple access protocol. , 2008, , .		4
58	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
59	Delay Effects in Supercavitating Vehicle Dynamics. , 2009, , .		3
60	Local mode-in-state participation factors for nonlinear systems. , 2014, , .		3
61	Two-Parameter Bifurcation Analysis of Axial Flow Compressor Dynamics. , 1991, , .		3
62	Nonlinear stabilizing control of high angle of attack flight dynamics. , 1989, , .		2
63	Opinion Dynamics with Persistent Leaders. , 2014, , .		2
64	A new parameter estimate in singular perturbations. , 1985, , .		1
65	New results in multiparameter singular perturbations. , 1986, , .		1
66	Robust Stability via the Guardian Map Approach: A Perspective. , 1990, , .		1
67	Stochastic stability analysis of nonlinear gated radar range trackers. , 1992, , 225-239.		1
68	Instability Monitoring and Control of Power Systems. , 2005, , 159-178.		1
69	Non-Steady Planing and Advection Delay Effects on the Dynamics and Control of Supercavitating Vehicles. , 2011, , .		1
70	Using participation factors to improve the consistency and accuracy of Prony analysis for voltage stability monitoring applications. , 2014, , .		1
71	Dynamic consensus measure and optimal selection of direct followers in multiagent networks. , 2016, , .		1
72	Monitoring and Control of Bifurcations Using Probe Signals. , 2002, , 51-65.		1

#	ARTICLE	IF	CITATIONS
73	Controlling Chaos and Targeting in a Thermal Convection Loop. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1992, 25, 494-497.	0.4	0
74	<title>Modal participation in the stability analysis and control of multistage compression systems</title>. , 1995, , .		0
75	SIGNAL-BASED INSTABILITY MONITORING OF ELECTRIC POWER SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 79-84.	0.4	0
76	Observation of noise-induced transitions in radar range tracking systems. AIP Conference Proceedings, 2005, , .	0.4	0
77	A robust orbit-steering and control algorithm using quadrupole-scans as a diagnostic. , 2007, , .		0
78	Price based bifurcation control for finite buffered slotted ALOHA protocol with finite users. , 2008, , .		0
79	Stability Analysis for Communication of Voice and Data Terminals with Packet Reservation Multiple Access Protocol. , 2008, , .		0
80	Stability analysis for communication of voice terminals with packet reservation multiple access protocol with high propagation delays using state estimation. , 2009, , .		0
81	Stability analysis for communication of voice and data terminals with packet reservation multiple access protocol using state estimation. , 2009, , .		0
82	Consensus prediction in minimum time. , 2017, , .		0
83	Automation: A New Open-Access Journal with a Broad Scope and an Exciting Mission. Automation, 2020, 1, 66-67.	2.3	0
84	On Nonlinear Station-Keeping Control of Tethered Satellites. , 1990, , .		0
85	Controlling Chaos and Targeting in a Thermal Convection Loop. , 1992, , 494-497.		0
86	Stochastic stability and bifurcation analysis of gated radar trackers. , 1996, , 2931-2942.		0
87	Energy modeling and control for improved engine stability and efficiency in air vehicles. Annual Reviews in Control, 2021, 52, 358-358.	7.9	0