

Mario di Bernardo

List of Publications by Year in descending order

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294
papers

9,505
citations

46918

47
h-index

49773

87
g-index

314
all docs

314
docs citations

314
times ranked

5795
citing authors

#	ARTICLE	IF	CITATIONS
1	Controllability of complex networks via pinning. <i>Physical Review E</i> , 2007, 75, 046103.	0.8	382
2	Distributed Consensus Strategy for Platooning of Vehicles in the Presence of Time-Varying Heterogeneous Communication Delays. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015, 16, 102-112.	4.7	368
3	A Yeast Synthetic Network for In Vivo Assessment of Reverse-Engineering and Modeling Approaches. <i>Cell</i> , 2009, 137, 172-181.	13.5	348
4	Distributed Adaptive Control of Synchronization in Complex Networks. <i>IEEE Transactions on Automatic Control</i> , 2012, 57, 2153-2158.	3.6	323
5	Bifurcations in Nonsmooth Dynamical Systems. <i>SIAM Review</i> , 2008, 50, 629-701.	4.2	296
6	Novel decentralized adaptive strategies for the synchronization of complex networks. <i>Automatica</i> , 2009, 45, 1312-1318.	3.0	286
7	Criteria for global pinning-controllability of complex networks. <i>Automatica</i> , 2008, 44, 3100-3106.	3.0	240
8	Bifurcations of dynamical systems with sliding: derivation of normal-form mappings. <i>Physica D: Nonlinear Phenomena</i> , 2002, 170, 175-205.	1.3	223
9	On QUAD, Lipschitz, and Contracting Vector Fields for Consensus and Synchronization of Networks. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2011, 58, 576-583.	3.5	196
10	A comparative analysis of synthetic genetic oscillators. <i>Journal of the Royal Society Interface</i> , 2010, 7, 1503-1524.	1.5	180
11	Grazing and Border-Collision in Piecewise-Smooth Systems: A Unified Analytical Framework. <i>Physical Review Letters</i> , 2001, 86, 2553-2556.	2.9	161
12	Synchronization of complex networks through local adaptive coupling. <i>Chaos</i> , 2008, 18, 037110.	1.0	151
13	Global Entrainment of Transcriptional Systems to Periodic Inputs. <i>PLoS Computational Biology</i> , 2010, 6, e1000739.	1.5	148
14	SELF-OSCILLATIONS AND SLIDING IN RELAY FEEDBACK SYSTEMS: SYMMETRY AND BIFURCATIONS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2001, 11, 1121-1140.	0.7	147
15	Event-Triggered Pinning Control of Switching Networks. <i>IEEE Transactions on Control of Network Systems</i> , 2015, 2, 204-213.	2.4	147
16	Comparing different ODE modelling approaches for gene regulatory networks. <i>Journal of Theoretical Biology</i> , 2009, 261, 511-530.	0.8	138
17	AN ADAPTIVE APPROACH TO THE CONTROL AND SYNCHRONIZATION OF CONTINUOUS-TIME CHAOTIC SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1996, 06, 557-568.	0.7	125
18	A network model of Italy shows that intermittent regional strategies can alleviate the COVID-19 epidemic. <i>Nature Communications</i> , 2020, 11, 5106.	5.8	122

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19	Evolution of Complex Networks via Edge Snapping. IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 2132-2143.	3.5	116
20	BSim: An Agent-Based Tool for Modeling Bacterial Populations in Systems and Synthetic Biology. PLoS ONE, 2012, 7, e42790.	1.1	116
21	In-Vivo Real-Time Control of Protein Expression from Endogenous and Synthetic Gene Networks. PLoS Computational Biology, 2014, 10, e1003625.	1.5	114
22	Synchronization and Control of Complex Networks via Contraction, Adaptation and Evolution. IEEE Circuits and Systems Magazine, 2010, 10, 64-82.	2.6	113
23	Grazing, skipping and sliding: Analysis of the non-smooth dynamics of the DC/DC buck converter. Nonlinearity, 1998, 11, 859-890.	0.6	110
24	TWO-PARAMETER DISCONTINUITY-INDUCED BIFURCATIONS OF LIMIT CYCLES: CLASSIFICATION AND OPEN PROBLEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 601-629.	0.7	106
25	Distributed model based event-triggered control for synchronization of multi-agent systems. Automatica, 2016, 73, 1-7.	3.0	98
26	Bifurcations of piecewise smooth flows: Perspectives, methodologies and open problems. Physica D: Nonlinear Phenomena, 2012, 241, 1845-1860.	1.3	92
27	Hybrid Model Reference Adaptive Control of Piecewise Affine Systems. IEEE Transactions on Automatic Control, 2013, 58, 304-316.	3.6	88
28	Contraction Theory and Master Stability Function: Linking Two Approaches to Study Synchronization of Complex Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2009, 56, 177-181.	2.2	85
29	Multiplex PI control for consensus in networks of heterogeneous linear agents. Automatica, 2016, 67, 310-320.	3.0	85
30	Distributed PID Control for Consensus of Homogeneous and Heterogeneous Networks. IEEE Transactions on Control of Network Systems, 2015, 2, 154-163.	2.4	84
31	Discontinuity-induced bifurcations of equilibria in piecewise-smooth and impacting dynamical systems. Physica D: Nonlinear Phenomena, 2008, 237, 119-136.	1.3	82
32	Design, Analysis, and Experimental Validation of a Distributed Protocol for Platooning in the Presence of Time-Varying Heterogeneous Delays. IEEE Transactions on Control Systems Technology, 2015, , 1-1.	3.2	78
33	Synchronization in weighted scale-free networks with degree-degree correlation. Physica D: Nonlinear Phenomena, 2006, 224, 123-129.	1.3	76
34	<i>In Vivo</i> Real-Time Control of Gene Expression: A Comparative Analysis of Feedback Control Strategies in Yeast. ACS Synthetic Biology, 2016, 5, 154-162.	1.9	76
35	Dynamic similarity promotes interpersonal coordination in joint action. Journal of the Royal Society Interface, 2016, 13, 20151093.	1.5	76
36	A Contraction Approach to the Hierarchical Analysis and Design of Networked Systems. IEEE Transactions on Automatic Control, 2013, 58, 1328-1331.	3.6	66

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37	Adaptive Pinning Control of Networks of Circuits and Systems in Lur'e Form. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 3033-3042.	3.5	65
38	Pinning control of complex networks via edge snapping. Chaos, 2011, 21, 033119.	1.0	64
39	Evolving dynamical networks. Physica D: Nonlinear Phenomena, 2014, 267, 1-6.	1.3	61
40	A purely adaptive controller to synchronize and control chaotic systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 214, 139-144.	0.9	60
41	Experimental and numerical verification of bifurcations and chaos in cam-follower impacting systems. Nonlinear Dynamics, 2007, 50, 409-429.	2.7	58
42	Analysis, design and implementation of a novel scheme for in-vivo control of synthetic gene regulatory networks. Automatica, 2011, 47, 1265-1270.	3.0	58
43	Convergence and synchronization in heterogeneous networks of smooth and piecewise smooth systems. Automatica, 2015, 56, 1-11.	3.0	58
44	Two-parameter degenerate sliding bifurcations in Filippov systems. Physica D: Nonlinear Phenomena, 2005, 204, 204-229.	1.3	57
45	Evolving enhanced topologies for the synchronization of dynamical complex networks. Physical Review E, 2010, 81, 056212.	0.8	56
46	<i>In-Silico</i> Analysis and Implementation of a Multicellular Feedback Control Strategy in a Synthetic Bacterial Consortium. ACS Synthetic Biology, 2017, 6, 507-517.	1.9	54
47	An Orthogonal Multi-input Integration System to Control Gene Expression in <i>Escherichia coli</i> . ACS Synthetic Biology, 2017, 6, 1816-1824.	1.9	52
48	C-bifurcations and period-adding in one-dimensional piecewise-smooth maps. Chaos, Solitons and Fractals, 2003, 18, 953-976.	2.5	50
49	EFFECTS OF DEGREE CORRELATION ON THE SYNCHRONIZATION OF NETWORKS OF OSCILLATORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 3499-3506.	0.7	50
50	Data-driven modelling of social forces and collective behaviour in zebrafish. Journal of Theoretical Biology, 2018, 443, 39-51.	0.8	50
51	Modeling RNA interference in mammalian cells. BMC Systems Biology, 2011, 5, 19.	3.0	48
52	Adaptive synchronization of complex networks. International Journal of Computer Mathematics, 2008, 85, 1189-1218.	1.0	47
53	NONHYPERBOLIC BOUNDARY EQUILIBRIUM BIFURCATIONS IN PLANAR FILIPPOV SYSTEMS: A CASE STUDY APPROACH. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 1377-1392.	0.7	45
54	Data-driven stochastic modelling of zebrafish locomotion. Journal of Mathematical Biology, 2015, 71, 1081-1105.	0.8	45

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55	Interaction patterns and individual dynamics shape the way we move in synchrony. <i>Scientific Reports</i> , 2017, 7, 6846.	1.6	44
56	BSim 2.0: An Advanced Agent-Based Cell Simulator. <i>ACS Synthetic Biology</i> , 2017, 6, 1969-1972.	1.9	43
57	How to Turn a Genetic Circuit into a Synthetic Tunable Oscillator, or a Bistable Switch. <i>PLoS ONE</i> , 2009, 4, e8083.	1.1	42
58	Analysis and stability of consensus in networked control systems. <i>Applied Mathematics and Computation</i> , 2010, 217, 988-1000.	1.4	41
59	Discontinuity-induced bifurcations of piecewise smooth dynamical systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 4915-4935.	1.6	40
60	Organization of feed-forward loop motifs reveals architectural principles in natural and engineered networks. <i>Science Advances</i> , 2018, 4, eaap9751.	4.7	40
61	Minimal Control Synthesis Adaptive Control of Continuous Bimodal Piecewise Affine Systems. <i>SIAM Journal on Control and Optimization</i> , 2010, 48, 4242-4261.	1.1	39
62	Extended hybrid model reference adaptive control of piecewise affine systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2016, 21, 11-21.	2.1	39
63	How to Synchronize Biological Clocks. <i>Journal of Computational Biology</i> , 2009, 16, 379-393.	0.8	38
64	Synchronization of Networks of Non-Identical Chua's Circuits: Analysis and Experiments. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2012, 59, 1029-1041.	3.5	38
65	<i>In Vivo</i> Feedback Control of an Antithetic Molecular-Titration Motif in <i>Escherichia coli</i> Using Microfluidics. <i>ACS Synthetic Biology</i> , 2020, 9, 2617-2624.	1.9	37
66	Qualitative theory of non-smooth dynamical systems. , 2008, , 47-119.		37
67	SYNCHRONIZABILITY AND SYNCHRONIZATION DYNAMICS OF WEIGHED AND UNWEIGHED SCALE FREE NETWORKS WITH DEGREE MIXING. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2007, 17, 2419-2434.	0.7	36
68	Coexisting solutions and bifurcations in mechanical oscillators with backlash. <i>Journal of Sound and Vibration</i> , 2007, 305, 854-885.	2.1	36
69	Corner-Impact Bifurcations: A Novel Class of Discontinuity-Induced Bifurcations in Cam-Follower Systems. <i>SIAM Journal on Applied Dynamical Systems</i> , 2008, 7, 18-38.	0.7	36
70	Model reference adaptive control of discrete-time piecewise linear systems. <i>International Journal of Robust and Nonlinear Control</i> , 2013, 23, 709-730.	2.1	36
71	Existence, stability and robustness analysis of limit cycles in hybrid anti-lock braking systems. <i>International Journal of Control</i> , 2009, 82, 659-678.	1.2	35
72	Teixeira singularities in 3D switched feedback control systems. <i>Systems and Control Letters</i> , 2010, 59, 615-622.	1.3	34

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73	Evolving dynamical networks: A formalism for describing complex systems. <i>Complexity</i> , 2012, 17, 18-25.	0.9	34
74	Analytical Approximations of Critical Clearing Time for Parametric Analysis of Power System Transient Stability. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2015, 5, 465-476.	2.7	34
75	Synthesis and Experimental Validation of the Novel LQ-NEMCSI Adaptive Strategy on an Electronic Throttle Valve. <i>IEEE Transactions on Control Systems Technology</i> , 2010, , .	3.2	33
76	Temperature dependence of ssrA-tag mediated protein degradation. <i>Journal of Biological Engineering</i> , 2012, 6, 10.	2.0	32
77	Contraction analysis of switched systems via regularization. <i>Automatica</i> , 2016, 73, 279-288.	3.0	32
78	Unravelling socio-motor biomarkers in schizophrenia. <i>NPJ Schizophrenia</i> , 2017, 3, 8.	2.0	32
79	Catastrophic sliding bifurcations and onset of oscillations in a superconducting resonator. <i>Physical Review E</i> , 2010, 81, 016213.	0.8	31
80	A Graphical Approach to Prove Contraction of Nonlinear Circuits and Systems. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2011, 58, 336-348.	3.5	30
81	Contraction Analysis for a Class of NonDifferentiable Systems with Applications to Stability and Network Synchronization. <i>SIAM Journal on Control and Optimization</i> , 2014, 52, 3203-3227.	1.1	30
82	Hybrid optimal scheduling for intermittent androgen suppression of prostate cancer. <i>Chaos</i> , 2010, 20, 045125.	1.0	29
83	Using Aging to Visually Uncover Evolutionary Processes on Networks. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2012, 18, 1343-1352.	2.9	29
84	Tunable genetic devices through simultaneous control of transcription and translation. <i>Nature Communications</i> , 2020, 11, 2095.	5.8	29
85	Experimental and Numerical Investigation of Coexistence, Novel Bifurcations, and Chaos in a Cam-Follower System. <i>SIAM Journal on Applied Dynamical Systems</i> , 2009, 8, 592-623.	0.7	27
86	Two-parameter discontinuity-induced bifurcation curves in a ZAD-strategy-controlled dc-dc buck converter. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2008, 55, 2392-2401.	3.5	26
87	A Multi-Functional Synthetic Gene Network: A Frequency Multiplier, Oscillator and Switch. <i>PLoS ONE</i> , 2011, 6, e16140.	1.1	26
88	Design, validation and experimental testing of a robust AQM control. <i>Control Engineering Practice</i> , 2009, 17, 394-407.	3.2	25
89	Event-triggered pinning control of complex networks with switching topologies. , 2014, , .		25
90	Pinning Controllability of Complex Network Systems With Noise. <i>IEEE Transactions on Control of Network Systems</i> , 2019, 6, 874-883.	2.4	25

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91	Experimental Analysis and Modeling of Limit Cycles in a Dynamic Wind-Tunnel Rig. <i>Journal of Aircraft</i> , 2003, 40, 776-785.	1.7	24
92	Novel switched model reference adaptive control for continuous piecewise affine systems. , 2008, , .		24
93	Full Characterization of Act-and-wait Control for First-order Unstable Lag Processes. <i>JVC/Journal of Vibration and Control</i> , 2010, 16, 1209-1233.	1.5	24
94	Balancing Cell Populations Endowed with a Synthetic Toggle Switch <i>via</i> Adaptive Pulsatile Feedback Control. <i>ACS Synthetic Biology</i> , 2020, 9, 793-803.	1.9	23
95	Cheetah: A Computational Toolkit for Cybergenetic Control. <i>ACS Synthetic Biology</i> , 2021, 10, 979-989.	1.9	23
96	Design of a Virtual Player for Joint Improvisation with Humans in the Mirror Game. <i>PLoS ONE</i> , 2016, 11, e0154361.	1.1	23
97	Entrainment and synchronization in networks of Rayleigh–van der Pol oscillators with diffusive and Haken–Kelso–Buzs couplings. <i>Biological Cybernetics</i> , 2016, 110, 151-169.	0.6	22
98	Decision landscapes: visualizing mouse-tracking data. <i>Royal Society Open Science</i> , 2017, 4, 170482.	1.1	22
99	Self-Organization of Weighted Networks for Optimal Synchronizability. <i>IEEE Transactions on Control of Network Systems</i> , 2018, 5, 1541-1550.	2.4	22
100	Analysis and Control of Genetic Toggle Switches Subject to Periodic Multi-Input Stimulation. , 2019, 3, 278-283.		22
101	Feedback control of limit cycles: a switching control strategy based on nonsmooth bifurcation theory. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2005, 52, 366-378.	0.1	21
102	Modelling emergence of oscillations in communicating bacteria: a structured approach from one to many cells. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20120612.	1.5	21
103	Leadership emergence in a data-driven model of zebrafish shoals with speed modulation. <i>European Physical Journal: Special Topics</i> , 2015, 224, 3343-3360.	1.2	21
104	Design of a Gain-Scheduled Flight Control System Using Bifurcation Analysis. <i>Journal of Guidance, Control, and Dynamics</i> , 2006, 29, 444-453.	1.6	20
105	Canonical Forms of Generic Piecewise Linear Continuous Systems. <i>IEEE Transactions on Automatic Control</i> , 2011, 56, 1911-1915.	3.6	20
106	Extended Cooperative Adaptive Cruise Control. , 2014, , .		20
107	Adaptive pinning control: A review of the fully decentralized strategy and its extensions. <i>European Physical Journal: Special Topics</i> , 2014, 223, 2649-2664.	1.2	20
108	Reconstructing the structure of directed and weighted networks of nonlinear oscillators. <i>Physical Review E</i> , 2017, 95, 042302.	0.8	20

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109	Complex Dynamics in a Hysteretic Relay Feedback System with Delay. <i>Journal of Nonlinear Science</i> , 2007, 17, 85-108.	1.0	19
110	Stability of networked systems: A multi-scale approach using contraction. , 2010, , .		19
111	Heterogeneity induces emergent functional networks for synchronization. <i>Physical Review E</i> , 2015, 91, 062913.	0.8	19
112	Exploiting Nodes Symmetries to Control Synchronization and Consensus Patterns in Multiagent Systems. , 2017, 1, 364-369.		19
113	Robust output feedback active queue management control in TCP networks. , 2004, , .		18
114	Dynamics of Symmetric Dynamical Systems with Delayed Switching. <i>JVC/Journal of Vibration and Control</i> , 2010, 16, 1111-1140.	1.5	18
115	Third-order consensus in vehicles platoon with heterogeneous time-varying delays. <i>IFAC-PapersOnLine</i> , 2015, 48, 358-363.	0.5	18
116	Design and Validation of a Virtual Player for Studying Interpersonal Coordination in the Mirror Game. <i>IEEE Transactions on Cybernetics</i> , 2018, 48, 1018-1029.	6.2	18
117	Fully adaptive pinning control of complex networks. , 2010, , .		17
118	Experimental implementation and validation of a novel minimal control synthesis adaptive controller for continuous bimodal piecewise affine systems. <i>Control Engineering Practice</i> , 2012, 20, 269-281.	3.2	17
119	Experimental validation of the discrete-time MCS adaptive strategy. <i>Control Engineering Practice</i> , 2013, 21, 847-859.	3.2	17
120	A novel cognitive architecture for a human-like virtual player in the mirror game. , 2014, , .		17
121	Influence of facial feedback during a cooperative human-robot task in schizophrenia. <i>Scientific Reports</i> , 2017, 7, 15023.	1.6	17
122	A Novel Computer-Based Set-Up to Study Movement Coordination in Human Ensembles. <i>Frontiers in Psychology</i> , 2017, 8, 967.	1.1	17
123	Synchronization in Multiplex Networks of Chua's Circuits: Theory and Experiments. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020, 67, 927-938.	3.5	17
124	Self-adaptive biosystems through tunable genetic parts and circuits. <i>Current Opinion in Systems Biology</i> , 2020, 24, 78-85.	1.3	17
125	Limit cycles analysis in hybrid anti-lock braking systems. , 2007, , .		16
126	Two-Parameter Bifurcation Analysis of the Buck Converter. <i>SIAM Journal on Applied Dynamical Systems</i> , 2009, 8, 1507-1522.	0.7	16

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127	Energy-Based Key-On Control of a Double Magnet Electromechanical Valve Actuator. IEEE Transactions on Control Systems Technology, 2012, 20, 1133-1145.	3.2	16
128	Structural Stability of the Two-Fold Singularity. SIAM Journal on Applied Dynamical Systems, 2012, 11, 1215-1230.	0.7	16
129	Modelling and Control for Bounded Synchronization in Multi-Terminal VSC-HVDC Transmission Networks. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 916-925.	3.5	16
130	Ratiometric control for differentiation of cell populations endowed with synthetic toggle switches. , 2019, , .		16
131	Reduction-based robust active queue management control. Control Engineering Practice, 2007, 15, 177-186.	3.2	15
132	Novel hybrid MRAC-LQ control schemes: synthesis, analysis and applications. International Journal of Control, 2008, 81, 940-961.	1.2	15
133	Derivation, identification and validation of a computational model of a novel synthetic regulatory network in yeast. Journal of Mathematical Biology, 2011, 62, 685-706.	0.8	15
134	Tracking a mobile target by multi-robot circumnavigation using bearing measurements. , 2017, , .		15
135	Moving in unison after perceptual interruption. Scientific Reports, 2020, 10, 18032.	1.6	15
136	Multicellular Feedback Control of a Genetic Toggle-Switch in Microbial Consortia. , 2021, 5, 151-156.		15
137	Measuring Zebrafish Turning Rate. Zebrafish, 2015, 12, 250-254.	0.5	14
138	Contraction and incremental stability of switched Carathéodory systems using multiple norms. Automatica, 2016, 70, 1-8.	3.0	14
139	Convergence, Consensus and Synchronization of Complex Networks via Contraction Theory. Understanding Complex Systems, 2016, , 313-339.	0.3	14
140	Model-Based Feedback Control of Live Zebrafish Behavior via Interaction With a Robotic Replica. IEEE Transactions on Robotics, 2020, 36, 28-41.	7.3	14
141	Convergence and synchronization in networks of piecewise-smooth systems via distributed discontinuous coupling. Automatica, 2021, 129, 109596.	3.0	14
142	Control engineering meets synthetic biology: Foundations and applications. Current Opinion in Systems Biology, 2021, 28, 100397.	1.3	14
143	Control of Nonlinear Aircraft Models Using Dynamic State-Feedback Gain Scheduling. , 2003, , .		13
144	Effects of variations of load distribution on network performance. , 0, , .		13

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145	Hybrid modeling and dynamics of a controlled reverse flow reactor. <i>AIChE Journal</i> , 2007, 53, 2084-2096.	1.8	13
146	Discrete-time minimal control synthesis adaptive algorithm. <i>International Journal of Control</i> , 2010, 83, 2641-2657.	1.2	13
147	Two-fold singularity in nonsmooth electrical systems. , 2011, , .		13
148	Consensus and synchronization of complex networks via proportional-integral coupling. , 2014, , .		13
149	Distributed optimisation and control of graph Laplacian eigenvalues for robust consensus via an adaptive multilayer strategy. <i>International Journal of Robust and Nonlinear Control</i> , 2017, 27, 1499-1525.	2.1	13
150	To Pass or Not to Pass: Modeling the Movement and Affordance Dynamics of a Pick and Place Task. <i>Frontiers in Psychology</i> , 2017, 8, 1061.	1.1	13
151	ChipSeg: An Automatic Tool to Segment Bacterial and Mammalian Cells Cultured in Microfluidic Devices. <i>ACS Omega</i> , 2021, 6, 2473-2476.	1.6	13
152	Automatic synchronisation of the cell cycle in budding yeast through closed-loop feedback control. <i>Nature Communications</i> , 2021, 12, 2452.	5.8	13
153	ON THE ROBUSTNESS OF PERIODIC SOLUTIONS IN RELAY FEEDBACK SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002, 35, 191-196.	0.4	12
154	Synchronizability of coupled PWL maps. <i>Chaos, Solitons and Fractals</i> , 2009, 41, 1353-1367.	2.5	12
155	Solving the rendezvous problem for multi-agent systems using contraction theory. , 2009, , .		12
156	An experimental approach to identify dynamical models of transcriptional regulation in living cells. <i>Chaos</i> , 2013, 23, 025106.	1.0	12
157	Distributed Model Based Event-Triggered Control for Synchronization of Multi-Agent Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013, 46, 329-334.	0.4	12
158	Adaptive tracking control of a virtual player in the mirror game. , 2014, , .		12
159	A model predictive approach to control the motion of a virtual player in the mirror game. , 2015, , .		12
160	Modular experimental setup for real-time analysis of emergent behavior in networks of Chua's circuits. <i>International Journal of Circuit Theory and Applications</i> , 2016, 44, 1551-1571.	1.3	12
161	Nonverbal leadership emergence in walking groups. <i>Scientific Reports</i> , 2020, 10, 18948.	1.6	12
162	In-silico feedback control of a MIMO synthetic Toggle Switch via Pulse-Width Modulation. , 2019, , .		11

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163	Spontaneous emergence of leadership patterns drives synchronization in complex human networks. Scientific Reports, 2021, 11, 18379.	1.6	11
164	Ratiometric control of cell phenotypes in a monostrain microbial consortia. Journal of the Royal Society Interface, 2022, 19, .	1.5	11
165	The Importance of Choosing Attractors for Optimizing Chaotic Communications. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2004, 51, 511-516.	2.3	10
166	Minimal control synthesis adaptive control of nonlinear systems: utilizing the properties of chaos. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 2397-2415.	1.6	10
167	FROM COMPLETE TO INCOMPLETE CHATTERING: A NOVEL ROUTE TO CHAOS IN IMPACTING CAM-FOLLOWER SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250102.	0.7	10
168	Comparing different control approaches to implement a human-like virtual player in the mirror game. , 2016, , .		10
169	Aircraft Flight Dynamics Analysis and Controller Design Using Bifurcation Tailoring. , 2002, , .		9
170	Editorial: Cooperative Multi-Agent Systems with Engineering Applications. IET Control Theory and Applications, 2015, 9, 309-311.	1.2	9
171	Design of a multicellular feedback control strategy in a synthetic bacterial consortium. , 2016, , .		9
172	Pinning Controllability of Complex Stochastic Networks. IFAC-PapersOnLine, 2017, 50, 8327-8332.	0.5	9
173	Synchronization of Networks of Piecewise-Smooth Systems. , 2018, 2, 653-658.		9
174	Herding stochastic autonomous agents via local control rules and online target selection strategies. Autonomous Robots, 2022, 46, 469-481.	3.2	9
175	Modelling and control of a single degree-of-freedom dynamic wind tunnel RIG. , 2003, , .		8
176	Hybrid Minimal Control Synthesis identification of continuous piecewise linear systems. , 2009, , .		8
177	Adaptive weight selection for optimal consensus performance. , 2014, , .		8
178	Kinematic characteristics of motion in the mirror game. , 2014, , .		8
179	Decentralized Gain Adaptation for Optimal Pinning Controllability of Complex Networks. , 2020, 4, 253-258.		8
180	Characterisation of cortical activity in response to deep brain stimulation of ventral lateral nucleus: Modelling and experiment. Journal of Neuroscience Methods, 2009, 183, 77-85.	1.3	7

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181	On Contraction of Piecewise Smooth Dynamical Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13299-13304.	0.4	7
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