

Eduardo D Sontag

List of Publications by Year in descending order

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Version: 2024-02-01

360
papers

24,920
citations

19657

61
h-index

9345

143
g-index

411
all docs

411
docs citations

411
times ranked

13651
citing authors

#	ARTICLE	IF	CITATIONS
1	An explicit formula for minimizing the infected peak in an SIR epidemic model when using a fixed number of complete lockdowns. <i>International Journal of Robust and Nonlinear Control</i> , 2023, 33, 4708-4731.	3.7	6
2	Long-Term Regulation of Prolonged Epidemic Outbreaks in Large Populations via Adaptive Control: A Singular Perturbation Approach. , 2022, 6, 578-583.		14
3	A Robust Lyapunov Criterion for Nonoscillatory Behaviors in Biological Interaction Networks. <i>IEEE Transactions on Automatic Control</i> , 2022, 67, 3305-3320.	5.7	6
4	Internal Models in Control, Bioengineering, and Neuroscience. <i>Annual Review of Control, Robotics, and Autonomous Systems</i> , 2022, 5, 55-79.	11.8	15
5	Remarks on input to state stability of perturbed gradient flows, motivated by model-free feedback control learning. <i>Systems and Control Letters</i> , 2022, 161, 105138.	2.3	14
6	Erratum to the example in Section V of A contraction approach to the hierarchical analysis and design of networked systems. <i>IEEE Transactions on Automatic Control</i> , 2022, , 1-1.	5.7	0
7	A novel COVID-19 epidemiological model with explicit susceptible and asymptomatic isolation compartments reveals unexpected consequences of timing social distancing. <i>Journal of Theoretical Biology</i> , 2021, 510, 110539.	1.7	50
8	A mathematical model exhibiting the effect of DNA methylation on the stability boundary in cell-fate networks. <i>Epigenetics</i> , 2021, 16, 436-457.	2.7	13
9	Input-to-State Stability. , 2021, , 1021-1030.		0
10	Perfect adaptation of CD8 ⁺ T cell responses to constant antigen input over a wide range of affinities is overcome by costimulation. <i>Science Signaling</i> , 2021, 14, eaay9363.	3.6	19
11	Universal features of epidemic models under social distancing guidelines. <i>Annual Reviews in Control</i> , 2021, 51, 426-440.	7.9	25
12	Mediating Ribosomal Competition by Splitting Pools. , 2021, , .		1
13	Bilinear Dynamical Networks Under Malicious Attack: An Efficient Edge Protection Method. , 2021, , .		2
14	Derivation of stationary distributions of biochemical reaction networks via structure transformation. <i>Communications Biology</i> , 2021, 4, 620.	4.4	8
15	Comment on "In vivo flow cytometry reveals a circadian rhythm of circulating tumor cells". <i>Light: Science and Applications</i> , 2021, 10, 188.	16.6	1
16	Maximizing average throughput in oscillatory biochemical synthesis systems: an optimal control approach. <i>Royal Society Open Science</i> , 2021, 8, 210878.	2.4	6
17	Mediating Ribosomal Competition by Splitting Pools. , 2021, 5, 1555-1560.		7
18	Scale-Invariance in Biological Sensing. , 2021, , 2025-2028.		0

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19	Integrating transcriptomics and bulk time course data into a mathematical framework to describe and predict therapeutic resistance in cancer. <i>Physical Biology</i> , 2021, 18, 016001.	1.8	17
20	A synthetic distributed genetic multi-bit counter. <i>IScience</i> , 2021, 24, 103526.	4.1	6
21	Mathematical Models of Protease-Based Enzymatic Biosensors. <i>ACS Synthetic Biology</i> , 2020, 9, 198-208.	3.8	10
22	Short-Term Circulating Tumor Cell Dynamics in Mouse Xenograft Models and Implications for Liquid Biopsy. <i>Frontiers in Oncology</i> , 2020, 10, 601085.	2.8	25
23	Delicate Balances in Cancer Chemotherapy: Modeling Immune Recruitment and Emergence of Systemic Drug Resistance. <i>Frontiers in Immunology</i> , 2020, 11, 1376.	4.8	23
24	Mathematical Details on a Cancer Resistance Model. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 501.	4.1	17
25	Distributed Implementation of Boolean Functions by Transcriptional Synthetic Circuits. <i>ACS Synthetic Biology</i> , 2020, 9, 2172-2187.	3.8	18
26	A computational framework for a Lyapunov-enabled analysis of biochemical reaction networks. <i>PLoS Computational Biology</i> , 2020, 16, e1007681.	3.2	14
27	First special section on systems and control research efforts against COVID-19 and future pandemics. <i>Annual Reviews in Control</i> , 2020, 50, 343-344.	7.9	11
28	Input-to-State Stability. , 2020, , 1-9.		1
29	Scale-Invariance in Biological Sensing. , 2020, , 1-4.		0
30	No Switching Policy Is Optimal for a Positive Linear System With a Bottleneck Entrance. , 2019, 3, 889-894.		7
31	Multi-modality in gene regulatory networks with slow promoter kinetics. <i>PLoS Computational Biology</i> , 2019, 15, e1006784.	3.2	29
32	Immunobiochemical Reconstruction of Influenza Lung Infectionâ€™Melanoma Skin Cancer Interactions. <i>Frontiers in Immunology</i> , 2019, 10, 4.	4.8	11
33	Mathematical Approach to Differentiate Spontaneous and Induced Evolution to Drug Resistance During Cancer Treatment. <i>JCO Clinical Cancer Informatics</i> , 2019, 3, 1-20.	2.1	52
34	Some Remarks on Robust Gene Regulation in a Biomolecular Integral Controller. , 2019, , .		3
35	Stochastic analysis of genetic feedback controllers to reprogram a pluripotency gene regulatory network. , 2019, 2019, 5089-5096.		3
36	Inferring reaction network structure from single-cell, multiplex data, using toric systems theory. <i>PLoS Computational Biology</i> , 2019, 15, e1007311.	3.2	15

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37	In vitro implementation of robust gene regulation in a synthetic biomolecular integral controller. Nature Communications, 2019, 10, 5760.	12.8	54
38	Revisiting totally positive differential systems: A tutorial and new results. Automatica, 2019, 101, 1-14.	5.0	37
39	Inferring reaction network structure from single-cell, multiplex data, using toric systems theory. , 2019, 15, e1007311.		0
40	Inferring reaction network structure from single-cell, multiplex data, using toric systems theory. , 2019, 15, e1007311.		0
41	Inferring reaction network structure from single-cell, multiplex data, using toric systems theory. , 2019, 15, e1007311.		0
42	Inferring reaction network structure from single-cell, multiplex data, using toric systems theory. , 2019, 15, e1007311.		0
43	Subharmonics and Chaos in Simple Periodically Forced Biomolecular Models. Biophysical Journal, 2018, 114, 1232-1240.	0.5	8
44	Engineered promoters enable constant gene expression at any copy number in bacteria. Nature Biotechnology, 2018, 36, 352-358.	17.5	144
45	Controllability Analysis and Control Synthesis for the Ribosome Flow Model. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 1351-1364.	3.0	11
46	Control Structures of Drug Resistance in Cancer Chemotherapy. , 2018, , .		3
47	Stochastic multistationarity in a model of the hematopoietic stem cell differentiation network. , 2018, 2018, 1886-1892.		2
48	Control-theoretic methods for biological networks. , 2018, , .		9
49	Internal Models in Control, Biology and Neuroscience. , 2018, , .		24
50	Analysis of Nonlinear Tridiagonal Cooperative Systems using Totally Positive Linear Differential Systems. , 2018, , .		1
51	Future systems and control research in synthetic biology. Annual Reviews in Control, 2018, 45, 5-17.	7.9	65
52	Examples of Computation of Exact Moment Dynamics for Chemical Reaction Networks. Lecture Notes in Control and Information Sciences - Proceedings, 2018, , 295-312.	0.1	0
53	A Dynamic Model of Immune Responses to Antigen Presentation Predicts Different Regions of Tumor or Pathogen Elimination. Cell Systems, 2017, 4, 231-241.e11.	6.2	59
54	An <i>Ex Vivo</i> Platform for the Prediction of Clinical Response in Multiple Myeloma. Cancer Research, 2017, 77, 3336-3351.	0.9	53

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55	Zeros of nonlinear systems with input invariances. <i>Automatica</i> , 2017, 81, 46-55.	5.0	4
56	Prof. Rudolf Emil Kalman [Obituary]. <i>IEEE Control Systems</i> , 2017, 37, 151-152.	0.8	3
57	Rudolf Kalman: Scientist, Leader, and Mentor [Historical Perspectives]. <i>IEEE Control Systems</i> , 2017, 37, 161-162.	0.8	0
58	A Tribute to Rudolf Kalman: His Research, Life, and Influence [Historical Perspectives]. <i>IEEE Control Systems</i> , 2017, 37, 153-153.	0.8	0
59	Solving Immunology?. <i>Trends in Immunology</i> , 2017, 38, 116-127.	6.8	45
60	Evaluating optimal therapy robustness by virtual expansion of a sample population, with a case study in cancer immunotherapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6277-E6286.	7.1	39
61	Logarithmic sensing in <i>Bacillus subtilis</i> aerotaxis. <i>Npj Systems Biology and Applications</i> , 2017, 3, 16036.	3.0	29
62	Computationally-Guided Design of a Stimulus-Responsive Multienzyme Supramolecular Assembly. <i>ChemBioChem</i> , 2017, 18, 2000-2006.	2.6	9
63	Multiple steady states and the form of response functions to antigen in a model for the initiation of T-cell activation. <i>Royal Society Open Science</i> , 2017, 4, 170821.	2.4	11
64	Oscillatory stimuli differentiate adapting circuit topologies. <i>Nature Methods</i> , 2017, 14, 1010-1016.	19.0	44
65	Translation inhibition and resource balance in the TX-TL cell-free gene expression system. <i>Synthetic Biology</i> , 2017, 2, ysx005.	2.2	26
66	Checkable Conditions for Contraction After Small Transients in Time and Amplitude. <i>Lecture Notes in Control and Information Sciences</i> , 2017, , 279-305.	1.0	10
67	Dynamic compensation, parameter identifiability, and equivariances. <i>PLoS Computational Biology</i> , 2017, 13, e1005447.	3.2	23
68	Reduction of multiscale stochastic biochemical reaction networks using exact moment derivation. <i>PLoS Computational Biology</i> , 2017, 13, e1005571.	3.2	28
69	Non-monotonic Response to Monotonic Stimulus: Regulation of Glyoxylate Shunt Gene-Expression Dynamics in <i>Mycobacterium tuberculosis</i> . <i>PLoS Computational Biology</i> , 2016, 12, e1004741.	3.2	30
70	Some remarks on a model for immune signal detection and feedback. , 2016, , .		1
71	In-vivo identification and control of aerotaxis in <i>Bacillus subtilis</i> . , 2016, , .		1
72	Controlling the ribosomal density profile in mRNA translation. , 2016, , .		1

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73	Exploring the impact of resource limitations on gene network reconstruction. , 2016, , .		2
74	Some remarks on spatial uniformity of solutions of reactionâ€“diffusion PDEs. Nonlinear Analysis: Theory, Methods & Applications, 2016, 147, 125-144.	1.1	10
75	Obituary for Professor Rudolf Emil Kalman. Automatica, 2016, 74, 370-371.	5.0	0
76	Scale-invariant systems realize nonlinear differential operators. , 2016, , .		7
77	A model for competition for ribosomes in the cell. Journal of the Royal Society Interface, 2016, 13, 20151062.	3.4	94
78	Contraction after small transients. Automatica, 2016, 67, 178-184.	5.0	31
79	Quorum-Sensing Synchronization of Synthetic Toggle Switches: A Design Based on Monotone Dynamical Systems Theory. PLoS Computational Biology, 2016, 12, e1004881.	3.2	25
80	Fundamental limitation of the instantaneous approximation in foldâ€“change detection models. IET Systems Biology, 2015, 9, 1-15.	1.5	13
81	A contraction approach to input tracking via high gain feedback. , 2015, , .		4
82	Exact Moment Dynamics for Feedforward Nonlinear Chemical Reaction Networks. IEEE Life Sciences Letters, 2015, 1, 26-29.	1.2	16
83	Silence on the relevant literature and errors in implementation. Nature Biotechnology, 2015, 33, 336-339.	17.5	14
84	Discriminating direct and indirect connectivities in biological networks. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12893-12898.	7.1	26
85	A Small-Gain Theorem for Random Dynamical Systems with Inputs and Outputs. SIAM Journal on Control and Optimization, 2015, 53, 2657-2695.	2.1	6
86	Input-to-State Stability. , 2015, , 575-584.		3
87	Synchronization of Diffusively-Connected Nonlinear Systems: Results Based on Contractions with Respect to General Norms. IEEE Transactions on Network Science and Engineering, 2014, 1, 91-106.	6.4	26
88	Quantifying the effect of interconnections on the steady states of biomolecular networks. , 2014, , .		1
89	Scale-invariance in singularly perturbed systems. , 2014, , .		2
90	Remarks on diffusive-link synchronization using non-Hilbert logarithmic norms. , 2014, , .		2

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91	On three generalizations of contraction. , 2014, , .		8
92	Contraction methods for nonlinear systems: A brief introduction and some open problems. , 2014, , .		91
93	Remarks on model-based estimation of nonhomogeneous Poisson processes and applications to biological systems. , 2014, , .		0
94	A small-gain result for orthant-monotone systems under mixed feedback. Systems and Control Letters, 2014, 68, 9-19.	2.3	21
95	A "resource allocator"™ for transcription based on a highly fragmented T7 <i>RNA</i> polymerase. Molecular Systems Biology, 2014, 10, 742.	7.2	156
96	Paradoxical Results in Perturbation-Based Signaling Network Reconstruction. Biophysical Journal, 2014, 106, 2720-2728.	0.5	23
97	A technique for determining the signs of sensitivities of steady states in chemical reaction networks. IET Systems Biology, 2014, 8, 251-267.	1.5	14
98	Entrainment to Periodic Initiation and Transition Rates in a Computational Model for Gene Translation. PLoS ONE, 2014, 9, e96039.	2.5	65
99	Response time re-scaling and Weber's law in adapting biological systems. , 2013, , .		0
100	Logarithmic Lipschitz norms and diffusion-induced instability. Nonlinear Analysis: Theory, Methods & Applications, 2013, 83, 31-49.	1.1	15
101	The Energy Costs of Insulators in Biochemical Networks. Biophysical Journal, 2013, 104, 1380-1390.	0.5	21
102	A Contraction Approach to the Hierarchical Analysis and Design of Networked Systems. IEEE Transactions on Automatic Control, 2013, 58, 1328-1331.	5.7	66
103	Reverse Engineering Validation using a Benchmark Synthetic Gene Circuit in Human Cells. ACS Synthetic Biology, 2013, 2, 255-262.	3.8	14
104	DevStaR: High-Throughput Quantification of <i>C. elegans</i> Developmental Stages. IEEE Transactions on Medical Imaging, 2013, 32, 1791-1803.	8.9	11
105	Transient dynamic phenotypes as criteria for model discrimination: fold-change detection in <i>Rhodobacter sphaeroides</i> chemotaxis. Journal of the Royal Society Interface, 2013, 10, 20120935.	3.4	15
106	Synthetic mammalian transgene negative autoregulation. Molecular Systems Biology, 2013, 9, 670.	7.2	36
107	Input to State Stability. , 2013, , 1-14.		1
108	Spatial uniformity in diffusively-coupled systems using weighted L^2 norm contractions. , 2013, , .		4

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109	A class of random control systems: Monotonicity and the convergent-input convergent-state property. , 2013, , .		1
110	Minimization of thermodynamic costs in cancer cell invasion. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1686-1691.	7.1	55
111	Random Dynamical Systems with Inputs. Lecture Notes in Mathematics, 2013, , 41-87.	0.2	2
112	A Characterization of Scale Invariant Responses in Enzymatic Networks. PLoS Computational Biology, 2012, 8, e1002748.	3.2	22
113	Modular Design of Artificial Tissue Homeostasis: Robust Control through Synthetic Cellular Heterogeneity. PLoS Computational Biology, 2012, 8, e1002579.	3.2	41
114	Remarks on the invalidation of biological models using monotone systems theory. , 2012, , .		9
115	A decomposition-based approach to stability analysis of large-scale stochastic systems. , 2012, , .		6
116	Fold-change detection as a chemotaxis model discrimination tool. , 2012, , .		1
117	Response to Comment on "Load-Induced Modulation of Signal Transduction Networks": Reconciling Ultrasensitivity with Bifunctionality? Science Signaling, 2012, 5, .	3.6	0
118	Stability certification of large scale stochastic systems using dissipativity. Automatica, 2012, 48, 2956-2964.	5.0	16
119	Exploring the scale invariance property in enzymatic networks. , 2012, , .		3
120	Mechanism-independent method for predicting response to multidrug combinations in bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12254-12259.	7.1	126
121	Acceptance Speech of Eduardo D. Sontag for the 2011 IEEE Control Systems Award [People in Control]. IEEE Control Systems, 2012, 32, 24-25.	0.8	0
122	Stability and Feedback Stabilization. , 2012, , 1639-1652.		6
123	Graph-Theoretic Analysis of Multistability and Monotonicity for Biochemical Reaction Networks. , 2011, , 63-72.		5
124	Symmetry Invariance for Adapting Biological Systems. SIAM Journal on Applied Dynamical Systems, 2011, 10, 857-886.	1.6	62
125	Persistence Results for Chemical Reaction Networks with Time-Dependent Kinetics and No Global Conservation Laws. SIAM Journal on Applied Mathematics, 2011, 71, 128-146.	1.8	45
126	Computationally efficient measure of topological redundancy of biological and social networks. Physical Review E, 2011, 84, 036117.	2.1	26

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127	Input symmetry invariance, and applications to biological systems. , 2011, , .		0
128	A small-gain result for orthant-monotone systems in feedback: The non sign-definite case. , 2011, , .		5
129	Load-Induced Modulation of Signal Transduction Networks. <i>Science Signaling</i> , 2011, 4, ra67.	3.6	64
130	Synthetic incoherent feedforward circuits show adaptation to the amount of their genetic template. <i>Molecular Systems Biology</i> , 2011, 7, 519.	7.2	150
131	Graph-theoretic characterizations of monotonicity of chemical networks in reaction coordinates. <i>Journal of Mathematical Biology</i> , 2010, 61, 581-616.	1.9	62
132	A symbolic computation approach to a problem involving multivariate Poisson distributions. <i>Advances in Applied Mathematics</i> , 2010, 44, 359-377.	0.7	56
133	Remarks on feedforward circuits, adaptation, and pulse memory. <i>IET Systems Biology</i> , 2010, 4, 39-51.	1.5	588
134	Conditions for global stability of monotone tridiagonal systems with negative feedback. <i>Systems and Control Letters</i> , 2010, 59, 130-138.	2.3	13
135	Fold-change detection and scalar symmetry of sensory input fields. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15995-16000.	7.1	203
136	Rapid and accurate developmental stage recognition of <i>C. elegans</i> from high-throughput image data. , 2010, 2010, 3089-3096.		10
137	Global Entrainment of Transcriptional Systems to Periodic Inputs. <i>PLoS Computational Biology</i> , 2010, 6, e1000739.	3.2	148
138	Stability of networked systems: A multi-scale approach using contraction. , 2010, , .		19
139	Synchronization of Interconnected Systems With Applications to Biochemical Networks: An Input-Output Approach. <i>IEEE Transactions on Automatic Control</i> , 2010, 55, 1367-1379.	5.7	182
140	Rudolf E. Kalman and His Students [Historical Perspectives]. <i>IEEE Control Systems</i> , 2010, 30, 87-88.	0.8	3
141	Remarks on structural identification, modularity, and retroactivity. , 2010, , .		1
142	Inference of Signal Transduction Networks from Double Causal Evidence. <i>Methods in Molecular Biology</i> , 2010, 673, 239-251.	0.9	5
143	Contractive Systems with Inputs. <i>Lecture Notes in Control and Information Sciences</i> , 2010, , 217-228.	1.0	65
144	On persistence of chemical reaction networks with time-dependent kinetics and no global conservation laws. , 2009, , .		1

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145	Shape, Size, and Robustness: Feasible Regions in the Parameter Space of Biochemical Networks. PLoS Computational Biology, 2009, 5, e1000256.	3.2	44
146	Problem 6.10 Smooth Lyapunov characterization of measurement to error stability. , 2009, , 239-244.		0
147	The p53HMM algorithm: using profile hidden markov models to detect p53-responsive genes. BMC Bioinformatics, 2009, 10, 111.	2.6	11
148	Chemical networks with inflows and outflows: A positive linear differential inclusions approach. Biotechnology Progress, 2009, 25, 632-642.	2.6	36
149	Modeling Proximal Tubule Cell Homeostasis: Tracking Changes in Luminal Flow. Bulletin of Mathematical Biology, 2009, 71, 1285-1322.	1.9	14
150	Geometry and topology of parameter space: investigating measures of robustness in regulatory networks. Journal of Mathematical Biology, 2009, 59, 315-358.	1.9	22
151	Attractors in coherent systems of differential equations. Journal of Differential Equations, 2009, 246, 3058-3076.	2.2	17
152	Engineering Principles in Bio-molecular Systems: From Retroactivity to Modularity. European Journal of Control, 2009, 15, 389-397.	2.6	22
153	Input Classes for Identifiability of Bilinear Systems. IEEE Transactions on Automatic Control, 2009, 54, 195-207.	5.7	25
154	Synthetic Biology: A Systems Engineering Perspective. , 2009, , 101-124.		8
155	Graphs and the Dynamics of Biochemical Networks. , 2009, , 125-144.		1
156	Stability and Feedback Stabilization. , 2009, , 8616-8630.		1
157	Engineering principles in bio-molecular systems: From retroactivity to modularity. , 2009, , .		1
158	Oscillations in I/O Monotone Systems Under Negative Feedback. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2009, , .	0.1	2
159	A Passivity-Based Approach to Stability of Spatially Distributed Systems With a Cyclic Interconnection Structure. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2009, , .	0.1	0
160	On the number of steady states in a multiple futile cycle. Journal of Mathematical Biology, 2008, 57, 29-52.	1.9	97
161	Singularly Perturbed Monotone Systems and Application to Double Phosphorylation Cycles. Journal of Nonlinear Science, 2008, 18, 527-550.	2.1	25
162	Inferring (Biological) Signal Transduction Networks via Transitive Reductions of Directed Graphs. Algorithmica, 2008, 51, 129-159.	1.3	20

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163	Translation-invariant monotone systems, and a global convergence result for enzymatic futile cycles. <i>Nonlinear Analysis: Real World Applications</i> , 2008, 9, 128-140.	1.7	53
164	Input to State Stability: Basic Concepts and Results. <i>Lecture Notes in Mathematics</i> , 2008, , 163-220.	0.2	581
165	Transcriptional control of human p53-regulated genes. <i>Nature Reviews Molecular Cell Biology</i> , 2008, 9, 402-412.	37.0	1,669
166	The Effect of Negative Feedback Loops on the Dynamics of Boolean Networks. <i>Biophysical Journal</i> , 2008, 95, 518-526.	0.5	49
167	A Passivity-Based Approach to Stability of Spatially Distributed Systems With a Cyclic Interconnection Structure. <i>IEEE Transactions on Automatic Control</i> , 2008, 53, 75-86.	5.7	38
168	Oscillations in I/O Monotone Systems Under Negative Feedback. <i>IEEE Transactions on Automatic Control</i> , 2008, 53, 166-176.	5.7	35
169	NET-SYNTHESIS: a software for synthesis, inference and simplification of signal transduction networks. <i>Bioinformatics</i> , 2008, 24, 293-295.	4.1	39
170	Passivity-based Stability of Interconnection Structures. <i>Lecture Notes in Control and Information Sciences</i> , 2008, , 195-204.	1.0	10
171	Global stability for monotone tridiagonal systems with negative feedback. , 2008, , .		3
172	Modular cell biology: retroactivity and insulation. <i>Molecular Systems Biology</i> , 2008, 4, 161.	7.2	454
173	An approximate internal model principle: Applications to nonlinear models of biological systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008, 41, 15873-15878.	0.4	12
174	Stabilizing and Destabilizing Effects of Embedding 3-Node Subgraphs on the State Space of Boolean Networks. <i>Lecture Notes in Computer Science</i> , 2008, , 100-107.	1.3	1
175	Network reconstruction based on steady-state data. <i>Essays in Biochemistry</i> , 2008, 45, 161-176.	4.7	53
176	A passivity-based stability criterion for a class of biochemical reaction networks. <i>Mathematical Biosciences and Engineering</i> , 2008, 5, 1-19.	1.9	136
177	Uniformly Universal Inputs. , 2008, , 9-24.		1
178	Remarks on the stability of spatially distributed systems with a cyclic interconnection structure. <i>Proceedings of the American Control Conference</i> , 2007, , .	0.0	7
179	Computational Aspects of Feedback in Neural Circuits. <i>PLoS Computational Biology</i> , 2007, 3, e165.	3.2	182
180	Remarks on Input Classes for Identification of Bilinear Systems. <i>Proceedings of the American Control Conference</i> , 2007, , .	0.0	1

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181	Further results on singularly perturbed monotone systems, with an application to double phosphorylation cycles. , 2007, , .		0
182	PETRI NETS TOOLS FOR THE ANALYSIS OF PERSISTENCE IN CHEMICAL NETWORKS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 721-726.	0.4	1
183	A Petri net approach to the study of persistence in chemical reaction networks. Mathematical Biosciences, 2007, 210, 598-618.	1.9	154
184	A passivity-based stability criterion for a class of interconnected systems and applications to biochemical reaction networks. , 2007, , .		10
185	A Novel Method for Signal Transduction Network Inference from Indirect Experimental Evidence. Journal of Computational Biology, 2007, 14, 927-949.	1.6	52
186	Systems biology and control — A tutorial. , 2007, , .		2
187	Intracellular Regulatory Networks are close to Monotone Systems. Nature Precedings, 2007, , .	0.1	1
188	Algorithmic and complexity results for decompositions of biological networks into monotone subsystems. BioSystems, 2007, 90, 161-178.	2.0	71
189	Randomized approximation algorithms for set multicover problems with applications to reverse engineering of protein and gene networks. Discrete Applied Mathematics, 2007, 155, 733-749.	0.9	35
190	Oscillations in multi-stable monotone systems with slowly varying feedback. Journal of Differential Equations, 2007, 239, 273-295.	2.2	24
191	Algorithmic Issues in Reverse Engineering of Protein and Gene Networks via the Modular Response Analysis Method. Annals of the New York Academy of Sciences, 2007, 1115, 132-141.	3.8	7
192	Monotone Chemical Reaction Networks. Journal of Mathematical Chemistry, 2007, 41, 295-314.	1.5	97
193	Monotone and near-monotone biochemical networks. Systems and Synthetic Biology, 2007, 1, 59-87.	1.0	167
194	Monotone and Near-Monotone Systems. , 2007, , 79-122.		3
195	A Petri Net Approach to Persistence Analysis in Chemical Reaction Networks. Lecture Notes in Control and Information Sciences, 2007, , 181-216.	1.0	23
196	A Novel Method for Signal Transduction Network Inference from Indirect Experimental Evidence. Lecture Notes in Computer Science, 2007, , 407-419.	1.3	1
197	Algorithmic and Complexity Results for Decompositions of Biological Networks into Monotone Subsystems. Lecture Notes in Computer Science, 2006, , 253-264.	1.3	13
198	Diagonal stability of a class of cyclic systems and its connection with the secant criterion. Automatica, 2006, 42, 1531-1537.	5.0	227

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199	Honey-pot constrained searching with local sensory information. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2006, 65, 1773-1793.	1.1	30
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