

Eric Bullinger

List of Publications by Year in descending order

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53
papers

1,110
citations

516215

16
h-index

414034

32
g-index

55
all docs

55
docs citations

55
times ranked

1362
citing authors

#	ARTICLE	IF	CITATIONS
1	Response to IL-6 trans- and IL-6 classic signalling is determined by the ratio of the IL-6 receptor \hat{I}_\pm to gp130 expression: fusing experimental insights and dynamic modelling. Cell Communication and Signaling, 2019, 17, 46.	2.7	89
2	Model Predictive Control for Aircraft Load Alleviation: Opportunities and Challenges. , 2018, , .		14
3	Mathematical 3D modelling and sensitivity analysis of multipolar radiofrequency ablation in the spine. Mathematical Biosciences, 2017, 284, 51-60.	0.9	3
4	Monotonicity of Kinetic Proofreading. IFAC-PapersOnLine, 2016, 49, 306-311.	0.5	1
5	A Set-Based Optimal Control Approach for Pharmacokinetic/Pharmacodynamic Drug Dosage Design. IFAC-PapersOnLine, 2016, 49, 797-802.	0.5	7
6	Activation of D2 autoreceptors alters cocaine-induced locomotion and slows down local field oscillations in the rat ventral tegmental area. Neuropharmacology, 2016, 108, 120-127.	2.0	6
7	The Experimental Side of Parameter Estimation. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2016, , 127-154.	0.7	7
8	Mathematical Modelling and Sensitivity Analysis of Multipolar Radiofrequency Ablation in the Spine. IFAC-PapersOnLine, 2015, 48, 243-248.	0.5	3
9	Simple and efficient moving horizon estimation based on the fast gradient method. IFAC-PapersOnLine, 2015, 48, 428-433.	0.5	10
10	Unraveling Apoptosis Signalling using Linear Control Methods: Linking the Loop Gain to Reverting the Decision to Undergo Apoptosis. IFAC-PapersOnLine, 2015, 48, 954-959.	0.5	0
11	A Model-Based Pharmacokinetics Characterization Method of Engineered Nanoparticles for Pilot Studies. IEEE Transactions on Nanobioscience, 2015, 14, 368-377.	2.2	3
12	Cell Invasion in the Spheroid Sprouting Assay: A Spatial Organisation Analysis Adaptable to Cell Behaviour. PLoS ONE, 2014, 9, e97019.	1.1	50
13	A New Look at Disease: Parkinson's as Seen Through the Eyes of an Engineer [Book review]. IEEE Control Systems, 2014, 34, 70-71.	1.0	0
14	Review of Computational Systems Biology of Cancer. BioMedical Engineering OnLine, 2013, 12, 76.	1.3	0
15	A feedback control perspective on models of apoptosis signal transduction. Chaos, Solitons and Fractals, 2013, 50, 93-99.	2.5	1
16	Quantifying Heterogeneity of Cell Death. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 181-186.	0.4	0
17	Delayed-decision making in noisy bistable switches. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 84-88.	0.4	1
18	Robustness-based Model Validation of an Apoptosis Signalling Network Model. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 930-935.	0.4	1

#	ARTICLE	IF	CITATIONS
19	Global Analysis of Dynamical Decision-Making Models through Local Computation around the Hidden Saddle. PLoS ONE, 2012, 7, e33110.	1.1	18
20	Heterogeneity reduces sensitivity of cell death for TNF-Stimuli. BMC Systems Biology, 2011, 5, 204.	3.0	37
21	Feedback control strategies for spatial navigation revealed by dynamic modelling of learning in the Morris water maze. Journal of Computational Neuroscience, 2011, 30, 447-454.	0.6	2
22	Limiting the parameter search space for dynamic models with rational kinetics using semi-definite programming. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 150-155.	0.4	3
23	Editorial for Special Issue on "Robustness in systems biology: Methods and applications". International Journal of Robust and Nonlinear Control, 2010, 20, n/a-n/a.	2.1	1
24	Delayed decision-making in bistable models. , 2010, , .		2
25	Systems Biology Approaches to the Study of Apoptosis. , 2009, , 283-297.		8
26	A Dissipative Approach to the Identification of Biochemical Reaction Networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1259-1264.	0.4	0
27	Identification of Biochemical Reaction Networks Using a Parameter-Free Coordinate System. , 2009, , 297-316.		3
28	The rôle of control and system theory in systems biology. Annual Reviews in Control, 2008, 32, 33-47.	4.4	36
29	High density resolution synchrotron radiation based x-ray microtomography (SR μ CT) for quantitative 3D-morphometrics in zoological sciences. , 2008, , .		6
30	Special Section on Machine Intelligence Approaches to Systems Biology. IEEE Transactions on Systems, Man, and Cybernetics, 2008, 38, 2-4.	5.5	3
31	Identifikation biochemischer Reaktionsnetzwerke: Ein beobachterbasierter Ansatz (Identification of) Tj ETQq1 1 0.784314 rgBT /Overlo 269-279.	0.4	4
32	Parameter estimation in kinetic reaction models using nonlinear observers facilitated by model extensions. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 313-318.	0.4	13
33	System and Control Theory Furthers the Understanding of Biological Signal Transduction. , 2007, , 123-135.		1
34	Approximations and their consequences for dynamic modelling of signal transduction pathways. Mathematical Biosciences, 2007, 207, 40-57.	0.9	35
35	Response to Bistability in Apoptosis: Roles of Bax, Bcl-2, and Mitochondrial Permeability Transition Pores. Biophysical Journal, 2007, 92, 3332-3334.	0.2	34
36	Steady state and (bi-) stability evaluation of simple protease signalling networks. BioSystems, 2007, 90, 591-601.	0.9	34

#	ARTICLE	IF	CITATIONS
37	Results Towards Identifiability Properties of Biochemical Reaction Networks. , 2006, , .		21
38	Functional morphology of Tethya species (Porifera): 2. Three-dimensional morphometrics on spicules and skeleton superstructures of T. minuta. Zoomorphology, 2006, 125, 225-239.	0.4	17
39	Sensitivity analysis of programmed cell death and implications for crosstalk phenomena during Tumor Necrosis Factor stimulation. , 2006, , .		1
40	Sensitivity analysis of programmed cell death and implications for crosstalk phenomena during Tumor Necrosis Factor stimulation. , 2006, , .		3
41	Adaptive tracking for nonlinear higher relative degree systems. Automatica, 2005, 41, 1191-1200.	3.0	43
42	Robustness properties of apoptosis models with respect to parameter variations and intrinsic noise. IET Systems Biology, 2005, 152, 221.	2.0	65
43	Integration und Interaktion: MÃglichkeiten des Einsatzes von Notebooks und Internet in der regelungstechnischen Lehre (Integration and Interaction: Opportunities of Using Notebooks and) Tj ETQq1 1 0.784314 rgBT (Overlo	1.0	0
44	Reduction of mathematical models of signal transduction networks: simulation-based approach applied to EGF receptor signalling. IET Systems Biology, 2004, 1, 159-169.	2.0	59
45	A Benchmark for Methods in Reverse Engineering and Model Discrimination: Problem Formulation and Solutions. Genome Research, 2004, 14, 1773-1785.	2.4	101
46	Bistability Analyses of a Caspase Activation Model for Receptor-induced Apoptosis. Journal of Biological Chemistry, 2004, 279, 36892-36897.	1.6	262
47	A note on stability, robustness and performance of output feedback nonlinear model predictive control. Journal of Process Control, 2003, 13, 633-644.	1.7	51
48	ON DERIVING A HYBRID MODEL FOR CARBOHYDRATE UPTAKE IN ESCHERICHIA COLI. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 19-24.	0.4	0
49	On output feedback nonlinear model predictive control using high gain observers for a class of systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 83-88.	0.4	5
50	Adaptive Tracking in Anesthesia. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 181-186.	0.4	2
51	Artifact-Tolerant Controllers for Automatic Drug Delivery in Anesthesia. Critical Reviews in Biomedical Engineering, 2000, 28, 187-192.	0.5	6
52	A Simple Adaptive Observer for Nonlinear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 781-786.	0.4	10
53	System Analysis of a Programmed Cell Death Model. , 0, , .		8