

Jorge Goncalves

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

2,956
citations

331670

21
h-index

197818

49
g-index

78
all docs

78
docs citations

78
times ranked

4255
citing authors

#	ARTICLE	IF	CITATIONS
1	Development and Validation of a Prognostic Risk Score System for COVID-19 Inpatients: A Multi-Center Retrospective Study in China. <i>Engineering</i> , 2022, 8, 116-121.	6.7	17
2	Performance of early warning signals for disease re-emergence: A case study on COVID-19 data. <i>PLoS Computational Biology</i> , 2022, 18, e1009958.	3.2	12
3	Data-Driven Discovery of Stochastic Differential Equations. <i>Engineering</i> , 2022, 17, 244-252.	6.7	9
4	Model-based assessment of COVID-19 epidemic dynamics by wastewater analysis. <i>Science of the Total Environment</i> , 2022, 827, 154235.	8.0	29
5	Linear system identifiability from single-cell data. <i>Systems and Control Letters</i> , 2022, 165, 105287.	2.3	0
6	Li Yan et al. reply. <i>Nature Machine Intelligence</i> , 2021, 3, 28-32.	16.0	8
7	A Full Bayesian Approach to Sparse Network Inference Using Heterogeneous Datasets. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 3282-3288.	5.7	3
8	Reply to: Clinical interpretation of an interpretable prognostic model for patients with COVID-19. <i>Nature Machine Intelligence</i> , 2021, 3, 17-17.	16.0	2
9	Reply to: Consider the laboratory aspects in developing patient prediction models. <i>Nature Machine Intelligence</i> , 2021, 3, 19-19.	16.0	3
10	SARS-CoV-2 transmission risk from asymptomatic carriers: Results from a mass screening programme in Luxembourg. <i>Lancet Regional Health - Europe</i> , The, 2021, 4, 100056.	5.6	68
11	Dynamical SPQIEIR model assesses the effectiveness of non-pharmaceutical interventions against COVID-19 epidemic outbreaks. <i>PLoS ONE</i> , 2021, 16, e0252019.	2.5	9
12	Almost global convergence to practical synchronization in the generalized Kuramoto model on networks over the n-sphere. <i>Communications Physics</i> , 2021, 4, .	5.3	12
13	COVID-19 crisis management in Luxembourg: Insights from an epidemiologic approach. <i>Economics and Human Biology</i> , 2021, 43, 101051.	1.7	8
14	Modelling COVID-19 dynamics and potential for herd immunity by vaccination in Austria, Luxembourg and Sweden. <i>Journal of Theoretical Biology</i> , 2021, 530, 110874.	1.7	22
15	System Aliasing in Dynamic Network Reconstruction: Issues on Low Sampling Frequencies. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 5788-5801.	5.7	1
16	Koopman-Based Lifting Techniques for Nonlinear Systems Identification. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 2550-2565.	5.7	58
17	High-dimensional Kuramoto models on Stiefel manifolds synchronize complex networks almost globally. <i>Automatica</i> , 2020, 113, 108736.	5.0	32
18	Gene regulatory network inference from sparsely sampled noisy data. <i>Nature Communications</i> , 2020, 11, 3493.	12.8	35

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19	FastField: An open-source toolbox for efficient approximation of deep brain stimulation electric fields. <i>NeuroImage</i> , 2020, 223, 117330.	4.2	28
20	An interpretable mortality prediction model for COVID-19 patients. <i>Nature Machine Intelligence</i> , 2020, 2, 283-288.	16.0	686
21	High precision variational Bayesian inference of sparse linear networks. <i>Automatica</i> , 2020, 118, 109017.	5.0	6
22	Differential Effects of Day/Night Cues and the Circadian Clock on the Barley Transcriptome. <i>Plant Physiology</i> , 2020, 183, 765-779.	4.8	29
23	From Diagnosing Diseases to Predicting Diseases. , 2019, , 95-103.		0
24	Data driven discovery of cyber physical systems. <i>Nature Communications</i> , 2019, 10, 4894.	12.8	118
25	Dynamical differential expression (DyDE) reveals the period control mechanisms of the Arabidopsis circadian oscillator. <i>PLoS Computational Biology</i> , 2019, 15, e1006674.	3.2	13
26	Network Stability, Realisation and Random Model Generation. , 2019, , .		0
27	A multifactorial evaluation framework for gene regulatory network reconstruction. <i>IFAC-PapersOnLine</i> , 2019, 52, 262-268.	0.9	1
28	Identification of Nonlinear State-Space Systems From Heterogeneous Datasets. <i>IEEE Transactions on Control of Network Systems</i> , 2018, 5, 737-747.	3.7	13
29	Post-operative deep brain stimulation assessment: Automatic data integration and report generation. <i>Brain Stimulation</i> , 2018, 11, 863-866.	1.6	16
30	PaCER - A fully automated method for electrode trajectory and contact reconstruction in deep brain stimulation. <i>NeuroImage: Clinical</i> , 2018, 17, 80-89.	2.7	174
31	Towards Almost Global Synchronization on the Stiefel Manifold. , 2018, , .		5
32	Dynamic controllers for column synchronization of rotation matrices: A QR-factorization approach. <i>Automatica</i> , 2018, 93, 20-25.	5.0	11
33	A lifting method for analyzing distributed synchronization on the unit sphere. <i>Automatica</i> , 2018, 96, 253-258.	5.0	20
34	Almost Global Consensus on the S^1 -Sphere. <i>IEEE Transactions on Automatic Control</i> , 2018, 63, 1664-1675.	5.7	83
35	A Minimal Realization Technique for the Dynamical Structure Function of a Class of LTI Systems. <i>IEEE Transactions on Control of Network Systems</i> , 2017, 4, 301-311.	3.7	8
36	Local Lyapunov Functions for Consensus in Switching Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 6466-6472.	5.7	14

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37	Distributed methods for synchronization of orthogonal matrices over graphs. <i>Automatica</i> , 2017, 80, 243-252.	5.0	16
38	Network Identifiability from Intrinsic Noise. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 3717-3728.	5.7	20
39	A two-stage approach of multiplicative dimensional reduction and polynomial chaos for global sensitivity analysis and uncertainty quantification with a large number of process uncertainties. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 78, 254-264.	5.3	7
40	Linear Dynamic Network Reconstruction from Heterogeneous Datasets. <i>IFAC-PapersOnLine</i> , 2017, 50, 10586-10591.	0.9	12
41	Identification of nonlinear sparse networks using sparse Bayesian learning. , 2017, , .		3
42	Optimising time-series experimental design for modelling of circadian rhythms: the value of transient data. <i>IFAC-PapersOnLine</i> , 2016, 49, 109-113.	0.9	8
43	Shaping Pulses to Control Bistable Monotone Systems Using Koopman Operator. <i>IFAC-PapersOnLine</i> , 2016, 49, 698-703.	0.9	7
44	Uncertainty quantification and global sensitivity analysis of complex chemical processes with a large number of input parameters using compressive polynomial chaos. <i>Chemical Engineering Research and Design</i> , 2016, 115, 204-213.	5.6	9
45	Consensus and formation control on $S \times E$ for switching topologies. <i>Automatica</i> , 2016, 66, 109-121.	5.0	59
46	A Sparse Bayesian Approach to the Identification of Nonlinear State-Space Systems. <i>IEEE Transactions on Automatic Control</i> , 2016, 61, 182-187.	5.7	94
47	Assessing the effect of unknown widespread perturbations in complex systems using the $\hat{1}/2$ -gap. , 2015, , .		1
48	Critical transitions in chronic disease: transferring concepts from ecology to systems medicine. <i>Current Opinion in Biotechnology</i> , 2015, 34, 48-55.	6.6	86
49	Online fault diagnosis for nonlinear power systems. <i>Automatica</i> , 2015, 55, 27-36.	5.0	36
50	Robust network reconstruction in polynomial time. , 2012, , .		10
51	Reconstruction of arbitrary biochemical reaction networks: A compressive sensing approach. , 2012, , .		23
52	Decentralised minimal-time dynamic consensus. , 2012, , .		13
53	Quantifying crosstalk in biochemical systems. , 2012, , .		12
54	EARLY FLOWERING4 Recruitment of EARLY FLOWERING3 in the Nucleus Sustains the <i>Arabidopsis</i> Circadian Clock. <i>Plant Cell</i> , 2012, 24, 428-443.	6.6	275

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55	Global State Synchronization in Networks of Cyclic Feedback Systems. IEEE Transactions on Automatic Control, 2012, 57, 478-483.	5.7	62
56	Robust dynamical network structure reconstruction. Automatica, 2011, 47, 1230-1235.	5.0	110
57	A Cost-Effective Atomic Force Microscope for Undergraduate Control Laboratories. IEEE Transactions on Education, 2010, 53, 328-334.	2.4	6
58	Minimal-time network reconstruction for DTLTI systems. , 2010, , .		3
59	Constructive synchronization of networked feedback systems. , 2010, , .		14
60	Robust dynamical network reconstruction. , 2010, , .		8
61	Decentralised final value theorem for discrete-time LTI systems with application to minimal-time distributed consensus. , 2009, , .		18
62	Minimal dynamical structure realisations with application to network reconstruction from data. , 2009, , .		11
63	Necessary and Sufficient Conditions for Dynamical Structure Reconstruction of LTI Networks. IEEE Transactions on Automatic Control, 2008, 53, 1670-1674.	5.7	176
64	Heterogeneous agent models in economics: A study of heterogenous productivity of sectors. , 2008, , .		1
65	Robust synchronization in networks of cyclic feedback systems. , 2008, , .		5
66	Output synchronization in networks of cyclic biochemical oscillators. Proceedings of the American Control Conference, 2007, , .	0.0	22
67	The <i>Arabidopsis</i> Circadian Clock Incorporates a cADPR-Based Feedback Loop. Science, 2007, 318, 1789-1792.	12.6	212
68	Clinical data based optimal STI strategies for HIV: a reinforcement learning approach. , 2006, , .		40
69	COVID-19 Crisis Management in Luxembourg: Insights from an Epidemionomic Approach. SSRN Electronic Journal, 0, , .	0.4	3