

Jorge Goncalves

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4898822/jorge-goncalves-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72 papers	1,842 citations	17 h-index	42 g-index
78 ext. papers	2,468 ext. citations	7 avg, IF	5.06 L-index

#	Paper	IF	Citations
72	An interpretable mortality prediction model for COVID-19 patients. <i>Nature Machine Intelligence</i> , 2020 , 2, 283-288	22.5	398
71	EARLY FLOWERING4 recruitment of EARLY FLOWERING3 in the nucleus sustains the Arabidopsis circadian clock. <i>Plant Cell</i> , 2012 , 24, 428-43	11.6	210
70	The Arabidopsis circadian clock incorporates a cADPR-based feedback loop. <i>Science</i> , 2007 , 318, 1789-92	33.3	179
69	Necessary and Sufficient Conditions for Dynamical Structure Reconstruction of LTI Networks. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 1670-1674	5.9	121
68	PaCER - A fully automated method for electrode trajectory and contact reconstruction in deep brain stimulation. <i>NeuroImage: Clinical</i> , 2018 , 17, 80-89	5.3	90
67	Robust dynamical network structure reconstruction. <i>Automatica</i> , 2011 , 47, 1230-1235	5.7	81
66	A Sparse Bayesian Approach to the Identification of Nonlinear State-Space Systems. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 182-187	5.9	63
65	Critical transitions in chronic disease: transferring concepts from ecology to systems medicine. <i>Current Opinion in Biotechnology</i> , 2015 , 34, 48-55	11.4	61
64	. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 1664-1675	5.9	52
63	Data driven discovery of cyber physical systems. <i>Nature Communications</i> , 2019 , 10, 4894	17.4	51
62	Global State Synchronization in Networks of Cyclic Feedback Systems. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 478-483	5.9	44
61	Consensus and formation control on SE(3) for switching topologies. <i>Automatica</i> , 2016 , 66, 109-121	5.7	37
60	SARS-CoV-2 transmission risk from asymptomatic carriers: Results from a mass screening programme in Luxembourg. <i>Lancet Regional Health - Europe, The</i> , 2021 , 4, 100056		37
59	Online fault diagnosis for nonlinear power systems. <i>Automatica</i> , 2015 , 55, 27-36	5.7	30
58	Clinical data based optimal STI strategies for HIV: a reinforcement learning approach 2006 ,		24
57	Koopman-Based Lifting Techniques for Nonlinear Systems Identification. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 2550-2565	5.9	24
56	Reconstruction of arbitrary biochemical reaction networks: A compressive sensing approach 2012 ,		17

55	Network Identifiability from Intrinsic Noise. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 3717-3728	5.9	16
54	A lifting method for analyzing distributed synchronization on the unit sphere. <i>Automatica</i> , 2018 , 96, 253-258	5.7	16
53	High-dimensional Kuramoto models on Stiefel manifolds synchronize complex networks almost globally. <i>Automatica</i> , 2020 , 113, 108736	5.7	14
52	FastField: An open-source toolbox for efficient approximation of deep brain stimulation electric fields. <i>NeuroImage</i> , 2020 , 223, 117330	7.9	12
51	Differential Effects of Day/Night Cues and the Circadian Clock on the Barley Transcriptome. <i>Plant Physiology</i> , 2020 , 183, 765-779	6.6	12
50	Post-operative deep brain stimulation assessment: Automatic data integration and report generation. <i>Brain Stimulation</i> , 2018 , 11, 863-866	5.1	12
49	Decentralised minimal-time dynamic consensus 2012 ,		12
48	Output synchronization in networks of cyclic biochemical oscillators. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	12
47	. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 6466-6472	5.9	11
46	Constructive synchronization of networked feedback systems 2010 ,		11
45	Decentralised final value theorem for discrete-time LTI systems with application to minimal-time distributed consensus 2009 ,		11
44	Dynamical differential expression (DyDE) reveals the period control mechanisms of the Arabidopsis circadian oscillator. <i>PLoS Computational Biology</i> , 2019 , 15, e1006674	5	10
43	Identification of Nonlinear State-Space Systems From Heterogeneous Datasets. <i>IEEE Transactions on Control of Network Systems</i> , 2018 , 5, 737-747	4	10
42	Development and Validation of a Prognostic Risk Score System for COVID-19 Inpatients: A Multi-Center Retrospective Study in China. <i>Engineering</i> , 2020 ,	9.7	10
41	Dynamic controllers for column synchronization of rotation matrices: A QR-factorization approach. <i>Automatica</i> , 2018 , 93, 20-25	5.7	10
40	Distributed methods for synchronization of orthogonal matrices over graphs. <i>Automatica</i> , 2017 , 80, 243-252	5.7	9
39	Linear Dynamic Network Reconstruction from Heterogeneous Datasets. <i>IFAC-PapersOnLine</i> , 2017 , 50, 10586-10591	0.7	9
38	Quantifying crosstalk in biochemical systems 2012 ,		8

37	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	5.5	7
36	Minimal dynamical structure realisations with application to network reconstruction from data 2009 ,		7
35	Gene regulatory network inference from sparsely sampled noisy data. <i>Nature Communications</i> , 2020 , 11, 3493	17.4	7
34	Shaping Pulses to Control Bistable Monotone Systems Using Koopman Operator. <i>IFAC-PapersOnLine</i> , 2016 , 49, 698-703	0.7	7
33	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	2.3	7
32	. <i>IEEE Transactions on Control of Network Systems</i> , 2017 , 4, 301-311	4	6
31	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	6
30	Robust dynamical network reconstruction 2010 ,		6
29	Robust network reconstruction in polynomial time 2012 ,		6
28	Dynamical SPQEIR model assesses the effectiveness of non-pharmaceutical interventions against COVID-19 epidemic outbreaks. <i>PLoS ONE</i> , 2021 , 16, e0252019	3.7	5
27	COVID-19 crisis management in Luxembourg: Insights from an epidemionomic approach. <i>Economics and Human Biology</i> , 2021 , 43, 101051	2.6	5
26	A Cost-Effective Atomic Force Microscope for Undergraduate Control Laboratories. <i>IEEE Transactions on Education</i> , 2010 , 53, 328-334	2.1	4
25	Towards Almost Global Synchronization on the Stiefel Manifold 2018 ,		4
24	FastField: An Open-Source Toolbox for Efficient Approximation of Deep Brain Stimulation Electric Fields		3
23	Development and validation of a prognostic risk score system for COVID-19 inpatients: A multi-center retrospective study in China		3
22	Dynamical SPQEIR model assesses the effectiveness of non-pharmaceutical interventions against COVID-19 epidemic outbreaks		3
21	Performance of early warning signals for disease re-emergence: a case study on COVID-19 data		3
20	Optimising time-series experimental design for modelling of circadian rhythms: the value of transient data. <i>IFAC-PapersOnLine</i> , 2016 , 49, 109-113	0.7	3

19	Reply to: Consider the laboratory aspects in developing patient prediction models. <i>Nature Machine Intelligence</i> , 2021 , 3, 19-19	22.5	3
18	Model-based assessment of COVID-19 epidemic dynamics by wastewater analysis.. <i>Science of the Total Environment</i> , 2022 , 154235	10.2	3
17	High precision variational Bayesian inference of sparse linear networks. <i>Automatica</i> , 2020 , 118, 109017	5.7	2
16	Identification of nonlinear sparse networks using sparse Bayesian learning 2017 ,		2
15	Minimal-time network reconstruction for DTLTI systems 2010 ,		2
14	Robust synchronization in networks of cyclic feedback systems 2008 ,		2
13	COVID-19 Crisis Management in Luxembourg: Insights from an Epidemionomic Approach. <i>SSRN Electronic Journal</i> ,	1	2
12	Stages of COVID-19 pandemic and paths to herd immunity by vaccination: dynamical model comparing Austria, Luxembourg and Sweden		2
11	Performance of early warning signals for disease re-emergence: A case study on COVID-19 data.. <i>PLoS Computational Biology</i> , 2022 , 18, e1009958	5	2
10	Assessing the effect of unknown widespread perturbations in complex systems using the Egap 2015 ,		1
9	Li Yan et al. reply. <i>Nature Machine Intelligence</i> , 2021 , 3, 28-32	22.5	1
8	A Full Bayesian Approach to Sparse Network Inference Using Heterogeneous Datasets. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 3282-3288	5.9	1
7	Reply to: Clinical interpretation of an interpretable prognostic model for patients with COVID-19. <i>Nature Machine Intelligence</i> , 2021 , 3, 17-17	22.5	1
6	Almost global convergence to practical synchronization in the generalized Kuramoto model on networks over the n-sphere. <i>Communications Physics</i> , 2021 , 4,	5.4	1
5	System Aliasing in Dynamic Network Reconstruction:Issues on Low Sampling Frequencies. <i>IEEE Transactions on Automatic Control</i> , 2020 , 1-1	5.9	0
4	A multifactorial evaluation framework for gene regulatory network reconstruction. <i>IFAC-PapersOnLine</i> , 2019 , 52, 262-268	0.7	0
3	From Diagnosing Diseases to Predicting Diseases 2019 , 95-103		
2	Initialisation of Deep Brain Stimulation Parameters with Multi-objective Optimisation Using Imaging Data. <i>Informatik Aktuell</i> , 2022 , 297-302	0.3	

- 1 Linear system identifiability from single-cell data. *Systems and Control Letters*, **2022**, 165, 105287 2.4