

# Jorge Goncalves

## List of Publications by Year in Descending Order

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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	Initialisation of Deep Brain Stimulation Parameters with Multi-objective Optimisation Using Imaging Data. <i>Informatik Aktuell</i> , <b>2022</b> , 297-302	0.3	
71	Performance of early warning signals for disease re-emergence: A case study on COVID-19 data.. <i>PLoS Computational Biology</i> , <b>2022</b> , 18, e1009958	5	2
70	Model-based assessment of COVID-19 epidemic dynamics by wastewater analysis.. <i>Science of the Total Environment</i> , <b>2022</b> , 154235	10.2	3
69	Linear system identifiability from single-cell data. <i>Systems and Control Letters</i> , <b>2022</b> , 165, 105287	2.4	
68	SARS-CoV-2 transmission risk from asymptomatic carriers: Results from a mass screening programme in Luxembourg. <i>Lancet Regional Health - Europe, The</i> , <b>2021</b> , 4, 100056		37
67	Dynamical SPQEIR model assesses the effectiveness of non-pharmaceutical interventions against COVID-19 epidemic outbreaks. <i>PLoS ONE</i> , <b>2021</b> , 16, e0252019	3.7	5
66	Li Yan et al. reply. <i>Nature Machine Intelligence</i> , <b>2021</b> , 3, 28-32	22.5	1
65	A Full Bayesian Approach to Sparse Network Inference Using Heterogeneous Datasets. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 3282-3288	5.9	1
64	Reply to: Clinical interpretation of an interpretable prognostic model for patients with COVID-19. <i>Nature Machine Intelligence</i> , <b>2021</b> , 3, 17-17	22.5	1
63	Reply to: Consider the laboratory aspects in developing patient prediction models. <i>Nature Machine Intelligence</i> , <b>2021</b> , 3, 19-19	22.5	3
62	Almost global convergence to practical synchronization in the generalized Kuramoto model on networks over the n-sphere. <i>Communications Physics</i> , <b>2021</b> , 4,	5.4	1
61	COVID-19 crisis management in Luxembourg: Insights from an epidemionomic approach. <i>Economics and Human Biology</i> , <b>2021</b> , 43, 101051	2.6	5
60	Modelling COVID-19 dynamics and potential for herd immunity by vaccination in Austria, Luxembourg and Sweden. <i>Journal of Theoretical Biology</i> , <b>2021</b> , 530, 110874	2.3	7
59	FastField: An open-source toolbox for efficient approximation of deep brain stimulation electric fields. <i>NeuroImage</i> , <b>2020</b> , 223, 117330	7.9	12
58	An interpretable mortality prediction model for COVID-19 patients. <i>Nature Machine Intelligence</i> , <b>2020</b> , 2, 283-288	22.5	398
57	High precision variational Bayesian inference of sparse linear networks. <i>Automatica</i> , <b>2020</b> , 118, 109017	5.7	2
56	Differential Effects of Day/Night Cues and the Circadian Clock on the Barley Transcriptome. <i>Plant Physiology</i> , <b>2020</b> , 183, 765-779	6.6	12

55	System Aliasing in Dynamic Network Reconstruction: Issues on Low Sampling Frequencies. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 1-1	5.9	0
54	Koopman-Based Lifting Techniques for Nonlinear Systems Identification. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 2550-2565	5.9	24
53	High-dimensional Kuramoto models on Stiefel manifolds synchronize complex networks almost globally. <i>Automatica</i> , <b>2020</b> , 113, 108736	5.7	14
52	Development and Validation of a Prognostic Risk Score System for COVID-19 Inpatients: A Multi-Center Retrospective Study in China. <i>Engineering</i> , <b>2020</b> ,	9.7	10
51	Gene regulatory network inference from sparsely sampled noisy data. <i>Nature Communications</i> , <b>2020</b> , 11, 3493	17.4	7
50	Data driven discovery of cyber physical systems. <i>Nature Communications</i> , <b>2019</b> , 10, 4894	17.4	51
49	Dynamical differential expression (DyDE) reveals the period control mechanisms of the Arabidopsis circadian oscillator. <i>PLoS Computational Biology</i> , <b>2019</b> , 15, e1006674	5	10
48	From Diagnosing Diseases to Predicting Diseases <b>2019</b> , 95-103		
47	A multifactorial evaluation framework for gene regulatory network reconstruction. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 262-268	0.7	0
46	Identification of Nonlinear State-Space Systems From Heterogeneous Datasets. <i>IEEE Transactions on Control of Network Systems</i> , <b>2018</b> , 5, 737-747	4	10
45	Post-operative deep brain stimulation assessment: Automatic data integration and report generation. <i>Brain Stimulation</i> , <b>2018</b> , 11, 863-866	5.1	12
44	PaCER - A fully automated method for electrode trajectory and contact reconstruction in deep brain stimulation. <i>NeuroImage: Clinical</i> , <b>2018</b> , 17, 80-89	5.3	90
43	A lifting method for analyzing distributed synchronization on the unit sphere. <i>Automatica</i> , <b>2018</b> , 96, 253-258	5.7	16
42	. <i>IEEE Transactions on Automatic Control</i> , <b>2018</b> , 63, 1664-1675	5.9	52
41	Towards Almost Global Synchronization on the Stiefel Manifold <b>2018</b> ,		4
40	Dynamic controllers for column synchronization of rotation matrices: A QR-factorization approach. <i>Automatica</i> , <b>2018</b> , 93, 20-25	5.7	10
39	. <i>IEEE Transactions on Control of Network Systems</i> , <b>2017</b> , 4, 301-311	4	6
38	. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 6466-6472	5.9	11

37	Distributed methods for synchronization of orthogonal matrices over graphs. <i>Automatica</i> , <b>2017</b> , 80, 243-252	3.7	9
36	Network Identifiability from Intrinsic Noise. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 3717-3728	5.9	16
35	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> , <b>2017</b> , 78, 254-264	5.3	6
34	Linear Dynamic Network Reconstruction from Heterogeneous Datasets. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 10586-10591	0.7	9
33	Identification of nonlinear sparse networks using sparse Bayesian learning <b>2017</b> ,		2
32	A Sparse Bayesian Approach to the Identification of Nonlinear State-Space Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2016</b> , 61, 182-187	5.9	63
31	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> , <b>2016</b> , 115, 204-213	5.5	7
30	Consensus and formation control on SE(3) for switching topologies. <i>Automatica</i> , <b>2016</b> , 66, 109-121	5.7	37
29	Optimising time-series experimental design for modelling of circadian rhythms: the value of transient data. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 109-113	0.7	3
28	Shaping Pulses to Control Bistable Monotone Systems Using Koopman Operator. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 698-703	0.7	7
27	Online fault diagnosis for nonlinear power systems. <i>Automatica</i> , <b>2015</b> , 55, 27-36	5.7	30
26	Assessing the effect of unknown widespread perturbations in complex systems using the Egap <b>2015</b> ,		1
25	Critical transitions in chronic disease: transferring concepts from ecology to systems medicine. <i>Current Opinion in Biotechnology</i> , <b>2015</b> , 34, 48-55	11.4	61
24	Global State Synchronization in Networks of Cyclic Feedback Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2012</b> , 57, 478-483	5.9	44
23	Robust network reconstruction in polynomial time <b>2012</b> ,		6
22	Reconstruction of arbitrary biochemical reaction networks: A compressive sensing approach <b>2012</b> ,		17
21	Decentralised minimal-time dynamic consensus <b>2012</b> ,		12
20	Quantifying crosstalk in biochemical systems <b>2012</b> ,		8

19	EARLY FLOWERING4 recruitment of EARLY FLOWERING3 in the nucleus sustains the Arabidopsis circadian clock. <i>Plant Cell</i> , <b>2012</b> , 24, 428-43	11.6	210
18	Robust dynamical network structure reconstruction. <i>Automatica</i> , <b>2011</b> , 47, 1230-1235	5.7	81
17	Minimal-time network reconstruction for DTLTI systems <b>2010</b> ,		2
16	Constructive synchronization of networked feedback systems <b>2010</b> ,		11
15	Robust dynamical network reconstruction <b>2010</b> ,		6
14	A Cost-Effective Atomic Force Microscope for Undergraduate Control Laboratories. <i>IEEE Transactions on Education</i> , <b>2010</b> , 53, 328-334	2.1	4
13	Decentralised final value theorem for discrete-time LTI systems with application to minimal-time distributed consensus <b>2009</b> ,		11
12	Minimal dynamical structure realisations with application to network reconstruction from data <b>2009</b> ,		7
11	Necessary and Sufficient Conditions for Dynamical Structure Reconstruction of LTI Networks. <i>IEEE Transactions on Automatic Control</i> , <b>2008</b> , 53, 1670-1674	5.9	121
10	Robust synchronization in networks of cyclic feedback systems <b>2008</b> ,		2
9	Output synchronization in networks of cyclic biochemical oscillators. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	12
8	The Arabidopsis circadian clock incorporates a cADPR-based feedback loop. <i>Science</i> , <b>2007</b> , 318, 1789-92	33.3	179
7	Clinical data based optimal STI strategies for HIV: a reinforcement learning approach <b>2006</b> ,		24
6	FastField: An Open-Source Toolbox for Efficient Approximation of Deep Brain Stimulation Electric Fields		3
5	Development and validation of a prognostic risk score system for COVID-19 inpatients: A multi-center retrospective study in China		3
4	COVID-19 Crisis Management in Luxembourg: Insights from an Epidemionomic Approach. <i>SSRN Electronic Journal</i> ,	1	2
3	Dynamical SPQEIR model assesses the effectiveness of non-pharmaceutical interventions against COVID-19 epidemic outbreaks		3
2	Performance of early warning signals for disease re-emergence: a case study on COVID-19 data		3

Stages of COVID-19 pandemic and paths to herd immunity by vaccination: dynamical model comparing Austria, Luxembourg and Sweden