Rachid Malti

List of Publications by Year
in descending order

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51 papers	1,157 citations	567281 15 h-index	395702 33 g-index
51 all docs	51 docs citations	51 times ranked	578 citing authors

#	Article	IF	Citations
1	Parameter and differentiation order estimation in fractional models. Automatica, 2013, 49, 926-935.	5.0	197
2	How to impose physically coherent initial conditions to a fractional system?. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 1318-1326.	3.3	174
3	Numerical Simulations of Fractional Systems: An Overview of Existing Methods and Improvements. Nonlinear Dynamics, 2004, 38, 117-131.	5.2	98
4	Advances in System Identification Using Fractional Models. Journal of Computational and Nonlinear Dynamics, 2008, 3, .	1.2	89
5	Stability and resonance conditions of elementary fractional transfer functions. Automatica, 2011, 47, 2462-2467.	5.0	65
6	CRONE control system design toolbox for the control engineering community: tutorial and case study. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120149.	3.4	57
7	Analytical computation of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si40.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>â„‹</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></ of fractional commensurate transfer functions. Automatica, 2011, 47, 2425-2432.	5.0	44
8	Fractional model for pharmacokinetics of high dose methotrexate in children with acute lymphoblastic leukaemia. Communications in Nonlinear Science and Numerical Simulation, 2015, 22, 451-471.	3.3	39
9	An optimal instrumental variable method for continuous-time fractional model identification. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 14379-14384.	0.4	38
10	Nonlinear thermal system identification using fractional Volterra series. Control Engineering Practice, 2014, 29, 50-60.	5.5	37
11	Set membership parameter estimation of fractional models based on bounded frequency domain data. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 927-938.	3.3	28
12	Robust estimation of fractional models in the frequency domain using set membership methods. Signal Processing, 2012, 92, 1591-1601.	3.7	28
13	New consistent methods for order and coefficient estimation of continuous-time errors-in-variables fractional models. Computers and Mathematics With Applications, 2013, 66, 860-872.	2.7	28
14	Object-oriented CRONE toolbox for fractional differential signal processing. Signal, Image and Video Processing, 2012, 6, 393-400.	2.7	21
15	A note on -norms of fractional systems. Automatica, 2013, 49, 2923-2927.	5.0	21
16	Subspace method for continuous-time fractional system identification. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 880-885.	0.4	16
17	Simple and Robust Experiment Design for System Identification Using Fractional Models. IEEE Transactions on Automatic Control, 2017, 62, 2648-2658.	5.7	14
18	Thermal system identification using fractional models for high temperature levels around different operating points. Nonlinear Dynamics, 2012, 70, 941-950.	5.2	13

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19	Multivariable Identification of Continuous-Time Fractional System. , 2009, , .		12
20	Differentiation similarities in fractional pseudo-state space representations and the subspace-based methods. Fractional Calculus and Applied Analysis, 2013, 16, 273-287.	2.2	11
21	Stability and resonance conditions of second-order fractional systems. JVC/Journal of Vibration and Control, 2018, 24, 659-672.	2.6	10
22	System identification of MISO fractional systems: Parameter and differentiation order estimation. Automatica, 2022, 141, 110268.	5.0	10
23	Nonlinear heat diffusion simulation using Volterra series expansion. International Journal of Thermal Sciences, 2013, 71, 80-87.	4.9	9
24	Output Error MISO System Identification Using Fractional Models. Fractional Calculus and Applied Analysis, 2021, 24, 1601-1618.	2.2	9
25	CRONE Toolbox for system identification using fractional differentiation models. IFAC-PapersOnLine, 2015, 48, 769-774.	0.9	8
26	Robust motion planning for a heat rod process. Nonlinear Dynamics, 2016, 86, 1271-1283.	5.2	8
27	Stability regions of fractional systems in the space of perturbed orders. IET Control Theory and Applications, 2019, 13, 2610-2619.	2.1	8
28	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si19.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> of fractional transfer functions of implicit type. Communications in Nonlinear Science and Numerical Simulation, 2015, 26, 223-237.	3.3	7
29	Fractional interval observers and initialization of fractional systems. Communications in Nonlinear Science and Numerical Simulation, 2020, 82, 105030.	3.3	7
30	Model Predictive Control Tuning: Methods and Issues. Application to steering wheel position control. IFAC-PapersOnLine, 2017, 50, 11331-11336.	0.9	6
31	Optimal input design for continuous-time system identification. Communications in Nonlinear Science and Numerical Simulation, 2018, 60, 92-99.	3.3	5
32	H 2 -norm of fractional transfer functions of implicit type of the first kind. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2022-2027.	0.4	4
33	ℋ<inf>2</inf>-norm of a class of fractional transfer functions suited for modeling diffusive phenomena. , 2015, , .		4
34	$$ancyscript{H}_2$$ H 2 -norm computation of a class of implicit fractional transfer functions: application to approximation by integer order models. International Journal of Dynamics and Control, 2017, 5, 95-101.	2.5	4
35	From System Identification to Path Planning Using Fractional Approach: A Thermal Application Example. , 2009, , .		3
36	Optimal input design for continuous-time system identification: application to fractional systems. IFAC-PapersOnLine, 2015, 48, 1307-1312.	0.9	3

#	Article	IF	Citations
37	Time-domain simulation of MIMO fractional systems. Nonlinear Dynamics, 2016, 84, 2057-2068.	5.2	3
38	Experiment design for elementary fractional models. Communications in Nonlinear Science and Numerical Simulation, 2022, 110, 106337.	3.3	3
39	Experiment design in system identification using fractional models. , 2014, , .		2
40	Frequency-domain subspace system identification with fractional differentiation models. , 2014, , .		2
41	L<inf>p</inf>-novm boundedness conditions of stable Davidson-Cole filters. , 2014, , .		2
42	Sufficient stability conditions of fractional systems with perturbed differentiation orders. IFAC-PapersOnLine, 2017, 50, 14557-14562.	0.9	2
43	Cruise control of an electric vehicle through fractional linear feedforward & prefiltering of an acceleration reference signal. IFAC-PapersOnLine, 2017, 50, 12569-12574.	0.9	2
44	Experiment design for system identification using fractional models of the second kind. IFAC-PapersOnLine, 2018, 51, 371-376.	0.9	2
45	Fractional Modeling of Driverâ€™s Dynamics. Part 1: Passive Feedback and Steering Wheel/Hand Link. Journal of Applied Nonlinear Dynamics, 2014, 3, 203-214.	0.3	2
46	Fractional Modeling of Driverâ€™s Dynamics. Part2: Set Membership Approach for Steering Feel and Visual Feedback. Journal of Applied Nonlinear Dynamics, 2014, 3, 215-226.	0.3	2
47	Which Lp-norm for evaluating fractional system performances?* *The author is grateful to FranÃ§ois Levron for commenting a previous version of the paper. Tel. +33 (0)5 4000 3709. Fax +33 (0)5 4000 6644. rachid.malti@ims-bordeaux.fr. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 576-580.	0.4	0
48	Fourth order cumulants in EIV system identification using fractional models. An electronic application. , 2014, , .		0
49	Pseudo-State-Space Fractional System Identification. SSRN Electronic Journal, 0, , .	0.4	0
50	An optimal instrumental variable approach for continuous-time multiple input-single output fractional model identification. IFAC-PapersOnLine, 2020, 53, 3701-3706.	0.9	0
51	A comparison between two methods for MISO fractional models estimation. , 2020, , .		0