Christophe Farges

List of Publications by Year
in descending order

47 papers	1,366 citations	623734 14 h-index	434195 31 g-index
48 all docs	48 docs citations	48 times ranked	640 citing authors

#	ARTICLE	IF	CITATIONS
1	LMI stability conditions for fractional order systems. Computers and Mathematics With Applications, 2010, 59, 1594-1609.	2.7	362
2	Pseudo-state feedback stabilization of commensurate fractional order systems. Automatica, 2010, 46, 1730-1734.	5.0	193
3	Fractional systems state space description: some wrong ideas and proposed solutions. JVC/Journal of Vibration and Control, 2014, 20, 1076-1084.	2.6	151
4	On Observability and Pseudo State Estimation of Fractional Order Systems. European Journal of Control, 2012, 18, 260-271.	2.6	106
5	Robust performance analysis and synthesis of linear polytopic discrete-time periodic systems via LMIs. Systems and Control Letters, 2007, 56, 159-166.	2.3	77
6	analysis and control of commensurate fractional order systems. Mechatronics, 2013, 23, 772-780.	3.3	60
7	A stability test for non-commensurate fractional order systems. Systems and Control Letters, 2013, 62, 739-746.	2.3	47
8	Comments on the description and initialization of fractional partial differential equations using Riemann–Liouville's and Caputo's definitions. Journal of Computational and Applied Mathematics, 2018, 339, 30-39.	2.0	37
9	ON STABILITY OF COMMENSURATE FRACTIONAL ORDER SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250084.	1.7	34
10	Fault detection based on fractional order models: Application to diagnosis of thermal systems. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 3679-3693.	3.3	25
11	Robust analysis and synthesis of linear polytopic discrete-time periodic systems via LMIs. , 0, , .		23
12	Pseudo state feedback stabilization of commensurate fractional order systems. , 2009, , .		23
13	Some Alternative Solutions to Fractional Models for Modelling Power Law Type Long Memory Behaviours. Mathematics, 2020, 8, 196.	2.2	23
14	Fractional order polytopic systems: robust stability and stabilisation. Advances in Difference Equations, 2011, 2011, .	3.5	20
15	Fractional Models for Thermal Modeling and Temperature Estimation of a Transistor Junction. Advances in Difference Equations, 2011, 2011, 1-12.	3.5	20
16	On computation of H<inf>&#x221E;</inf> norm for commensurate fractional order systems. , 2011, , .		18
17	Approximation of a fractional order model by an integer order model: a new approach taking into account approximation error as an uncertainty. JVC/Journal of Vibration and Control, 2016, 22, 2069-2082.	2.6	15
18	Nonlinear dynamical modeling of adsorption and desorption processes with power-law kinetics: Application to<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml Physical Review E, 2020, 102, 052102.	2.1	14

#	Article	IF	Citations
19	Analysis of fractional models physical consistency. JVC/Journal of Vibration and Control, 2017, 23, 895-908.	2.6	13
20	Periodic H2 synthesis for spacecraft in elliptical orbits with atmospheric drag and J2 perturbations. Proceedings of the American Control Conference, 2007, , .	0.0	11
21	H<inf>âˇž</inf> output feedback control of commensurate fractional order systems. , 2013, , .		10
22	Hâˇž state feedback control of commensurate fractional order systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 54-59.	0.4	8
23	Long memory models: a first solution to the infinite energy storage ability of linear time-invariant fractional models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2884-2890.	0.4	8
24	Detection of Electric Contact Resistance Variations in Automotive Connectors. IEEE Transactions on Industrial Electronics, 2017, 64, 9469-9476.	7.9	8
25	`<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><` of fractional transfer functions of implicit type. Communications in Nonlinear Science and Numerical Simulation, 2015, 26, 223-237.	3.3	7
26	Robust stability analysis and stabilization of fractional order polytopic systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 10800-10805.	0.4	6
27	Initial value problems should not be associated to fractional model descriptions whatever the derivative definition used. AIMS Mathematics, 2021, 6, 11318-11329.	1.6	6
28	Generalied Fractional Obsevers Scheme to fault detection and isolation. , 2013, , .		5
29	Adsorption on Fractal Surfaces: A Non Linear Modeling Approach of a Fractional Behavior. Fractal and Fractional, 2021, 5, 65.	3.3	5
30	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
31	&#x210B;<inf>2</inf>-norm of a class of fractional transfer functions suited for modeling diffusive phenomena. , 2015, , .		4
32	$$ancyscript{H}_2$$ 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
33	Misconceptions in using Riemann-Liouvilleâ€™s and Caputoâ€™s definitions for the description and initialization of fractional partial differential equations. IFAC-PapersOnLine, 2017, 50, 8574-8579.	0.9	4
34	Fractional Behaviours Modelling with Volterra Equations: Application to a Lithium-Ion Cell and Comparison with a Fractional Model. Fractal and Fractional, 2022, 6, 137.	3.3	4
35	About fractional models physical consistency: Case of implicit differentiation based fractional order models. , 2015, , .		3
36	`<mml:math altimg="si5.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x`	3.3	3

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37	Convertible aircraft dynamic modelling and flatness analysis âŽ âŽThis paper has been supported by the French Agence Nationale de la Recherche (ANR), MICA project.. IFAC-PapersOnLine, 2018, 51, 25-30.	0.9	3
38	Transistor thermal fractional modeling for junction temperature estimation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 10806-10811.	0.4	2
39	Robust LFR-based technique for stability analysis of periodic solutions. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 263-267.	0.4	0
40	Electrical Contact Resistance Estimation With Application to Electric Vehicle Charging Cable. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	1.6	0
41	Convertible delta-wing aircraft for teaching and research. IFAC-PapersOnLine, 2019, 52, 478-483.	0.9	0
42	Linear Quadratic control law design for commensurate fractional order models. , 2019, , .		0
43	Dynamical properties of fractional models. , 2019, , 29-56.		0
44	H_∞ and H_2 control of fractional models. , 2019, , 73-100.		0
45	Partial Differential Equations with Spatially Variable Coefficients. Intelligent Systems, Control and Automation: Science and Engineering, 2022, , 97-117.	0.5	0
46	Fractional Order Models. Intelligent Systems, Control and Automation: Science and Engineering, 2022, , 13-39.	0.5	0
47	Adsorption onÂFractal Surfaces: A Non Linear Modeling Approach ofÂaÂFractional Behavior. Lecture Notes in Networks and Systems, 2022, , 96-105.	0.7	0