Duarte ValÃ©rio

List of Publications by Year
in descending order

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73	2,141	361296	243529
papers	citations	20	44
		h-index	g-index

75	75	75	1498
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tuning of fractional PID controllers with Zieglerâ€“Nichols-type rules. Signal Processing, 2006, 86, 2771-2784.	2.1	395
2	Variable-order fractional derivatives and their numerical approximations. Signal Processing, 2011, 91, 470-483.	2.1	224
3	Fractional calculus: A survey of useful formulas. European Physical Journal: Special Topics, 2013, 222, 1827-1846.	1.2	193
4	Introduction to single-input, single-output fractional control. IET Control Theory and Applications, 2011, 5, 1033-1057.	1.2	128
5	Some pioneers of the applications of fractional calculus. Fractional Calculus and Applied Analysis, 2014, 17, 552-578.	1.2	128
6	Optimisation of wave energy extraction with the Archimedes Wave Swing. Ocean Engineering, 2007, 34, 2330-2344.	1.9	105
7	Time-domain implementation of fractional order controllers. IET Control Theory and Applications, 2005, 152, 539-552.	1.7	92
8	Variable order fractional systems. Communications in Nonlinear Science and Numerical Simulation, 2019, 71, 231-243.	1.7	75
9	An Introduction to Fractional Control. , 2012, , .		50
10	Identifying a Transfer Function From a Frequency Response. Journal of Computational and Nonlinear Dynamics, 2008, 3, .	0.7	49
11	Identification and control of the AWS using neural network models. Applied Ocean Research, 2008, 30, 178-188.	1.8	40
12	Fractional calculus in economic growth modelling: the Spanish and Portuguese cases. International Journal of Dynamics and Control, 2017, 5, 208-222.	1.5	40
13	Modelling and control of a wave energy converter. Renewable Energy, 2011, 36, 1913-1921.	4.3	37
14	Fractional order human arm dynamics with variability analyses. Mechatronics, 2013, 23, 805-812.	2.0	37
15	Variable Order Fractional Controllers. Asian Journal of Control, 2013, 15, 648-657.	1.9	33
16	TUNING-RULES FOR FRACTIONAL PID CONTROLLERS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 28-33.	0.4	32
17	Machine Learning and Natural Language Processing for Prediction of Human Factors in Aviation Incident Reports. Aerospace, 2021, 8, 47.	1.1	31
18	ISWEC linear quadratic regulator oscillating control. Renewable Energy, 2017, 103, 372-382.	4.3	25

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19	Fractional Calculus in Economic Growth Modelling of the Group of Seven. Fractional Calculus and Applied Analysis, 2019, 22, 139-157.	1.2	24
20	Identifying a non-commensurable fractional transfer function from a frequency response. Signal Processing, 2015, 107, 254-264.	2.1	22
21	How Many Fractional Derivatives Are There?. Mathematics, 2022, 10, 737.	1.1	22
22	On the numerical computation of the Mittag-Leffler function. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 3419-3424.	1.7	21
23	Finding a fractional model from frequency and time responses. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 911-921.	1.7	20
24	Dynamic modeling of bone metastasis, microenvironment and therapy. Journal of Theoretical Biology, 2016, 391, 1-12.	0.8	19
25	Fractional calculus in economic growth modeling. The Portuguese case. , 2014, , .		16
26	Entropy Analysis of a Railway Networkâ€™s Complexity. Entropy, 2016, 18, 388.	1.1	16
27	Comparison of control strategies performance for a Wave Energy Converter. , 2008, , .		15
28	Identifying digital and fractional transfer functions from a frequency response. International Journal of Control, 2011, 84, 445-457.	1.2	15
29	Identification of Fractional Models from Frequency Data. , 2007, , 229-242.		15
30	Fractional Derivatives for Economic Growth Modelling of the Group of Twenty: Application to Prediction. Mathematics, 2020, 8, 50.	1.1	15
31	Fractional sliding mode control of MIMO nonlinear noncommensurable plants. JVC/Journal of Vibration and Control, 2014, 20, 1052-1065.	1.5	14
32	Reset control approximates complex order transfer functions. Nonlinear Dynamics, 2019, 97, 2323-2337.	2.7	14
33	Fractional-Order Colour Image Processing. Mathematics, 2021, 9, 457.	1.1	13
34	Space debris generation in GEO: Space materials testing and evaluation. Acta Astronautica, 2022, 192, 258-275.	1.7	13
35	Tuning Rules for Fractional PIDs. , 2007, , 463-476.		12
36	Rule-Based Fractional Control of an Irrigation Canal. Journal of Computational and Nonlinear Dynamics, 2011, 6, .	0.7	11

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37	Multi-agent management system for electric vehicle charging. International Transactions on Electrical Energy Systems, 2015, 25, 770-788.	1.2	11
38	Simplifying biochemical tumorous bone remodeling models through variable order derivatives. Computers and Mathematics With Applications, 2018, 75, 3147-3157.	1.4	10
39	Linear model identification of the Archimedes Wave Swing. , 2007, , .		9
40	2D PCA-based localization for mobile robots in unstructured environments. , 2012, , .		9
41	Feedback linearisation control applied to the Archimedes Wave Swing. , 2007, , .		8
42	Rule-based fractional control of an irrigation canal. , 2009, , .		8
43	Fractional reset control. Signal, Image and Video Processing, 2012, 6, 495-501.	1.7	6
44	Fractional Calculus in Economic Growth Modelling: The Spanish Case. Lecture Notes in Electrical Engineering, 2015, , 449-458.	0.3	6
45	A fractional perspective to the modelling of Lisbonâ€™s public transportation network. Transportation, 2019, 46, 1893-1913.	2.1	6
46	Comparison of control strategies applied to the Archimedes Wave Swing. , 2007, , .		5
47	Laboratory Software for the Three-Tank Benchmark System: From PID to Multi-Agent Fault-Tolerant Fractional Control. Procedia, Social and Behavioral Sciences, 2012, 46, 1919-1923.	0.5	5
48	Multi-agent PID and fractional PID control of the three-tank benchmark system. , 2010, , .		4
49	Development of a multi-agent management system for an intelligent charging network of electric vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12267-12272.	0.4	4
50	Fractional direct and inverse models of the dynamics of a human arm. JVC/Journal of Vibration and Control, 2016, 22, 2240-2254.	1.5	4
51	Variable Order Differential Models of Bone Remodelling * *This work was supported by FCT, through IDMEC, under LAETA, projects UID/EMS/50022/2013, BoneSys, joint Polish-Portuguese project Modelling and controlling cancer evolution using fractional calculus, PERSEIDS (PTDC/EMS-SIS/0642/2014) and IF/00653/2012. IFAC-PapersOnLine, 2017, 50, 8066-8071.	0.5	4
52	ISWEC Devices on a Wave Farm Handled by a Multi-Agent System. Applied Ocean Research, 2021, 111, 102659.	1.8	4
53	Air pressure forecasting for the Mutriku oscillatingâ€waterâ€column wave power plant: Review and case study. IET Renewable Power Generation, 2021, 15, 3485-3503.	1.7	4
54	Online identification of pain model in postanesthesia care unit for drug infusion optimization. , 2021, , .		4

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55	Closed-Loop Frequency Analysis of Reset Control Systems. IEEE Transactions on Automatic Control, 2023, 68, 1146-1153.	3.6	3
56	Creation of a Virtual Graphic Interface Applied to a Process Control System. Procedia, Social and Behavioral Sciences, 2012, 46, 565-569.	0.5	2
57	Dynamic Biochemical and Cellular Models of Bone Physiology: Integrating Remodeling Processes, Tumor Growth, and Therapy. Lecture Notes in Computational Vision and Biomechanics, 2020, , 95-128.	0.5	2
58	Fractional order identification of human arm dynamics: Preliminary results. , 2013, , .		2
59	Robustness assessment of model-based control for the Archimedes Wave Swing. , 2009, , .		1
60	Short-term prediction in an Oscillating Water Column using Artificial Neural Networks. , 2018, , .		1
61	Studying Bone Remodelling and Tumour Growth for Therapy Predictive Control. Mathematics, 2020, 8, 679.	1.1	1
62	Dynamic modeling of bone remodeling, osteolytic metastasis and PK/PD therapy: introducing variable order derivatives as a simplification technique. Journal of Mathematical Biology, 2021, 83, 39.	0.8	1
63	Variable-order derivatives and bone remodeling in the presence of metastases. , 2019, , 69-94.		1
64	Digital implementation of non-integer control and its application to a two-link robotic arm. , 2003, , .		1
65	Numerical comparison between deep water and intermediate water depth expressions applied to a wave energy converter. AIMS Energy, 2015, 3, 525-546.	1.1	1
66	Direct and Inverse Models of Human Arm Dynamics. , 2015, , .		1
67	Fractional Control of an Offshore Wind System. SSRN Electronic Journal, 0, , .	0.4	1
68	Path Planning and Guidance Laws of a Formula Student Driverless Car. World Electric Vehicle Journal, 2022, 13, 100.	1.6	1
69	Fault Detection System for the Ã‰vora Irrigation Canal. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 750-755.	0.4	0
70	Bone Remodelling, Tumour Growth, and Fractional Order Therapy Predictive Control. SSRN Electronic Journal, 2018, , .	0.4	0
71	Variable Order Fractional Derivatives and Bone Remodeling in the Presence of Metastases. , 2018, , 1-36.		0
72	Fractional Order Processing of Satellite Images. Applied Sciences (Switzerland), 2021, 11, 5288.	1.3	0

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73	Offshore Wind System in the Way of Energy 4.0: Ride Through Fault Aided by Fractional PI Control and VRFB. Springer Proceedings in Mathematics and Statistics, 2019, , 85-106.	0.1	0