MichaÅ, Macias

List of Publications by Year
in descending order

31	534	1039880 9	752573 20
papers	citations	h-index	g-index

34	34	34	305
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	MEMS Accelerometer Noises Analysis Based on Triple Estimation Fractional Order Algorithm. Sensors, 2022, 22, 527.	2.1	7
2	Triple Estimation of Fractional Variable Order, Parameters, and State Variables Based on the Unscented Fractional Order Kalman Filter. Sensors, 2021, 21, 8159.	2.1	4
3	The Particular Types of Fractional Variable-Order Symmetric Operators. Lecture Notes in Electrical Engineering, 2020, , 29-40.	0.3	1
4	Realization of the Fractional Variable-Order Model with Symmetric Property. Lecture Notes in Electrical Engineering, 2020, , 43-54.	0.3	0
5	Analog Realization of a Fractional Recursive Variable-Type and Order Operator for a Particular Switching Strategy. Electronics (Switzerland), 2020, 9, 855.	1.8	2
6	Anomalous diffusion modeling using ultracapacitors in domino ladder circuit. Microelectronics Journal, 2019, 84, 136-141.	1.1	4
7	Simplifying biochemical tumorous bone remodeling models through variable order derivatives. Computers and Mathematics With Applications, 2018, 75, 3147-3157.	1.4	10
8	Analog realization of fractional variable-type and -order iterative operator. Applied Mathematics and Computation, 2018, 336, 138-147.	1.4	4
9	Order Composition Properties for Output-Additive Variable-Order Derivative. Lecture Notes in Electrical Engineering, 2017, , 57-64.	0.3	0
10	Numerical solution of fractional variable order linear control system in state-space form. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2017, 65, 715-724.	0.8	1
11	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
12	On the Output-Additive Switching Strategy for a New Variable Type and Order Difference. Lecture Notes in Electrical Engineering, 2017, , 101-111.	0.3	2
13	New recursive approximation of fractional order derivative and its application to control. , 2016, , .		5
14	Numerical schemes for initialized constant and variable fractional-order derivatives: matrix approach and its analog verification. JVC/Journal of Vibration and Control, 2016, 22, 2032-2044.	1.5	20
15	Dual Estimation of Fractional Variable Order Based on the Unscented Fractional Order Kalman Filter for Direct and Networked Measurements. Circuits, Systems, and Signal Processing, 2016, 35, 2055-2082.	1.2	25
16	Experimental Results of Modeling Variable Order System Based on Discrete Fractional Variable Order State-Space Model. Lecture Notes in Electrical Engineering, 2016, , 129-139.	0.3	2
17	Practical analog realization of multiple order switching for recursive fractional variable order derivative. , 2015, , .		4
18	Solution of fractional variable order differential equation. , 2015, , .		4

#	Article	IF	Citations
19	Matrix Approach and Analog Modeling for Solving Fractional Variable Order Differential Equations. Lecture Notes in Electrical Engineering, 2015, , 71-80.	0.3	8
20	Derivation, interpretation, and analog modelling of fractional variable order derivative definition. Applied Mathematical Modelling, 2015, 39, 3876-3888.	2.2	67
21	On the Recursive Fractional Variable-Order Derivative: Equivalent Switching Strategy, Duality, and Analog Modeling. Circuits, Systems, and Signal Processing, 2015, 34, 1077-1113.	1.2	52
22	Diffusion process modeling by using fractional-order models. Applied Mathematics and Computation, 2015, 257, 2-11.	1.4	130
23	An alternative recursive fractional variable-order derivative definition and its analog validation. , 2014, , .		28
24	Initial conditions for a recursive constant and variable fractional-order derivative and its verification based on analog model. , 2014, , .		1
25	Comparison of variable fractional order PID controller for different types of variable order derivatives. , 2013, , .		19
26	Analog Modeling of Fractional Switched Order Derivative Using Different Switching Schemes. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2013, 3, 394-403.	2.7	16
27	Modeling of electrical drive system with flexible shaft based on fractional calculus. , 2013, , .		6
28	Switching scheme, equivalence, and analog validation of the alternative fractional variable-order derivative definition. , 2013, , .		20
29	On a new definition of fractional variable-order derivative. , 2013, , .		35
30	Equivalent switching strategy and analog validation of the fractional variable order derivative definition. , 2013, , .		20
31	Fractional order calculus for modeling and fractional PID control of the heating process. , 2012, , .		9