

Tomas Skovranek

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

968
citations

1039880

9
h-index

1058333

14
g-index

30
all docs

30
docs citations

30
times ranked

815
citing authors

#	ARTICLE	IF	CITATIONS
1	Customer Behaviour Hidden Markov Model. Mathematics, 2022, 10, 1230.	1.1	3
2	Speech Based Estimation of Parkinson's Disease Using Gaussian Processes and Automatic Relevance Determination. Neurocomputing, 2020, 401, 173-181.	3.5	39
3	Fractional Linear Prediction Toolbox for MATLAB. , 2020, , .		1
4	Unified Software Interface for Numerical Evaluation of Integrals and Derivatives of Fractional Order. , 2020, , .		0
5	Audio Signal Processing Using Fractional Linear Prediction. Mathematics, 2019, 7, 580.	1.1	4
6	The Mittag-Leffler Fitting of the Phillips Curve. Mathematics, 2019, 7, 589.	1.1	8
7	Anomalous diffusion modeling using ultracapacitors in domino ladder circuit. Microelectronics Journal, 2019, 84, 136-141.	1.1	4
8	Optimal Fractional Linear Prediction With Restricted Memory. IEEE Signal Processing Letters, 2019, 26, 760-764.	2.1	10
9	Two-dimensional fractional linear prediction. Computers and Electrical Engineering, 2019, 77, 37-46.	3.0	3
10	Signal prediction using fractional derivative models. , 2019, , 179-206.		2
11	One-parameter fractional linear prediction. Computers and Electrical Engineering, 2018, 69, 158-170.	3.0	11
12	Toolboxes and programs for fractional-order system identification, modeling, simulation, and control. , 2016, , .		8
13	MATLAB: The ultimate tool for teaching process control oriented courses. , 2016, , .		3
14	Automatic test generator. , 2016, , .		0
15	Diffusion process modeling by using fractional-order models. Applied Mathematics and Computation, 2015, 257, 2-11.	1.4	130
16	Recent advances in numerical methods for partial fractional differential equations. , 2014, , .		10
17	Modelling heat transfer in heterogeneous media using fractional calculus. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120146.	1.6	163
18	Comparison of Methods for Analysis of Deviations from Roundness. Measurement Techniques, 2013, 56, 1021-1025.	0.2	11

#	ARTICLE	IF	CITATIONS
19	Matrix approach to discrete fractional calculus III: non-equidistant grids, variable step length and distributed orders. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120153.	1.6	49
20	Modeling of the national economies in state-space: A fractional calculus approach. Economic Modelling, 2012, 29, 1322-1327.	1.8	80
21	Fitting of experimental data using Mittag-Leffler function. , 2012, , .		20
22	Data fitting using solutions of differential equations: Fractional-order model versus integer-order model. , 2012, , .		8
23	Fractional order control model of steel casting process. , 2011, , .		5
24	Frequency response based identification of fractional order dynamical systems. , 2011, , .		2
25	Modeling Heat Transfer in Heterogeneous Media Using Fractional Calculus. , 2011, , .		9
26	Discrete Fractional Calculus: Non-Equidistant Grids and Variable Step Length. , 2011, , .		2
27	Matrix Approach to Discretization of Ordinary and Partial Differential Equations of Arbitrary Real Order: The Matlab Toolbox. , 2009, , .		5
28	Matrix approach to discrete fractional calculus II: Partial fractional differential equations. Journal of Computational Physics, 2009, 228, 3137-3153.	1.9	368
29	Matrix approach to discretization of fractional derivatives and to solution of fractional differential equations and their systems. , 2009, , .		9
30	Identification of Systems of Arbitrary Real Order: A New Method Based on Systems of Fractional Order Differential Equations and Orthogonal Distance Fitting. , 2009, , .		1