

# 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	Matrix approach to discrete fractional calculus II: Partial fractional differential equations. Journal of Computational Physics, 2009, 228, 3137-3153.	1.9	368
2	Modelling heat transfer in heterogeneous media using fractional calculus. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120146.	1.6	163
3	Diffusion process modeling by using fractional-order models. Applied Mathematics and Computation, 2015, 257, 2-11.	1.4	130
4	Modeling of the national economies in state-space: A fractional calculus approach. Economic Modelling, 2012, 29, 1322-1327.	1.8	80
5	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
6	Speech Based Estimation of Parkinson's Disease Using Gaussian Processes and Automatic Relevance Determination. Neurocomputing, 2020, 401, 173-181.	3.5	39
7	Fitting of experimental data using Mittag-Leffler function. , 2012, , .		20
8	Comparison of Methods for Analysis of Deviations from Roundness. Measurement Techniques, 2013, 56, 1021-1025.	0.2	11
9	One-parameter fractional linear prediction. Computers and Electrical Engineering, 2018, 69, 158-170.	3.0	11
10	Recent advances in numerical methods for partial fractional differential equations. , 2014, , .		10
11	Optimal Fractional Linear Prediction With Restricted Memory. IEEE Signal Processing Letters, 2019, 26, 760-764.	2.1	10
12	Matrix approach to discretization of fractional derivatives and to solution of fractional differential equations and their systems. , 2009, , .		9
13	Modeling Heat Transfer in Heterogeneous Media Using Fractional Calculus. , 2011, , .		9
14	Data fitting using solutions of differential equations: Fractional-order model versus integer-order model. , 2012, , .		8
15	Toolboxes and programs for fractional-order system identification, modeling, simulation, and control. , 2016, , .		8
16	The Mittag-Leffler Fitting of the Phillips Curve. Mathematics, 2019, 7, 589.	1.1	8
17	Matrix Approach to Discretization of Ordinary and Partial Differential Equations of Arbitrary Real Order: The Matlab Toolbox. , 2009, , .		5
18	Fractional order control model of steel casting process. , 2011, , .		5

#	ARTICLE	IF	CITATIONS
19	Audio Signal Processing Using Fractional Linear Prediction. Mathematics, 2019, 7, 580.	1.1	4
20	Anomalous diffusion modeling using ultracapacitors in domino ladder circuit. Microelectronics Journal, 2019, 84, 136-141.	1.1	4
21	MATLAB: The ultimate tool for teaching process control oriented courses. , 2016, , .		3
22	Two-dimensional fractional linear prediction. Computers and Electrical Engineering, 2019, 77, 37-46.	3.0	3
23	Customer Behaviour Hidden Markov Model. Mathematics, 2022, 10, 1230.	1.1	3
24	Frequency response based identification of fractional order dynamical systems. , 2011, , .		2
25	Discrete Fractional Calculus: Non-Equidistant Grids and Variable Step Length. , 2011, , .		2
26	Signal prediction using fractional derivative models. , 2019, , 179-206.		2
27	Identification of Systems of Arbitrary Real Order: A New Method Based on Systems of Fractional Order Differential Equations and Orthogonal Distance Fitting. , 2009, , .		1
28	Fractional Linear Prediction Toolbox for MATLAB. , 2020, , .		1
29	Automatic test generator. , 2016, , .		0
30	Unified Software Interface for Numerical Evaluation of Integrals and Derivatives of Fractional Order. , 2020, , .		0