

Svetoslav M Markov

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

518
citations

933447

10
h-index

677142

22
g-index

34
all docs

34
docs citations

34
times ranked

303
citing authors

#	ARTICLE	IF	CITATIONS
1	Calculus for interval functions of a real variable. Computing (Vienna/New York), 1979, 22, 325-337.	4.8	167
2	On the Hausdorff distance between the Heaviside step function and Verhulst logistic function. Journal of Mathematical Chemistry, 2016, 54, 109-119.	1.5	90
3	On quasilinear spaces of convex bodies and intervals. Journal of Computational and Applied Mathematics, 2004, 162, 93-112.	2.0	33
4	An iterative method for algebraic solution to interval equations. Applied Numerical Mathematics, 1999, 30, 225-239.	2.1	30
5	The Set of Hausdorff Continuous Functions – The Largest Linear Space of Interval Functions. Reliable Computing, 2006, 12, 337-363.	0.8	25
6	A self-validating numerical method for the matrix exponential. Computing (Vienna/New York), 1989, 43, 59-72.	4.8	20
7	Stochastic arithmetic: Addition and multiplication by scalars. Applied Numerical Mathematics, 2004, 50, 475-488.	2.1	16
8	Title is missing!. Reliable Computing, 2001, 7, 113-127.	0.8	15
9	On the chemical meaning of some growth models possessing Gompertzian-type property. Mathematical Methods in the Applied Sciences, 2018, 41, 8365-8376.	2.3	12
10	Theoretical and computational studies of some bioreactor models. Computers and Mathematics With Applications, 2012, 64, 350-360.	2.7	11
11	Isomorphic Embeddings of Abstract Interval Systems. Reliable Computing, 1997, 3, 199-207.	0.8	10
12	Wrapping Effect and Wrapping Function. Reliable Computing, 1998, 4, 311-330.	0.8	9
13	On the Inclusion Properties of Interval Multiplication: A Diagrammatic Study. BIT Numerical Mathematics, 2003, 43, 791-810.	2.0	9
14	On linear interpolation under interval data. Mathematics and Computers in Simulation, 1996, 42, 35-45.	4.4	8
15	The two-step exponential decay reaction network: analysis of the solutions and relation to epidemiological SIR models with logistic and Gompertz type infection contact patterns. Journal of Mathematical Chemistry, 2021, 59, 1283-1315.	1.5	8
16	On the algebraic Properties of Stochastic Arithmetic. Comparison to Interval Arithmetic. , 2001, , 331-341.		8
17	Stochastic Arithmetic: s-spaces and Some Applications. Numerical Algorithms, 2004, 37, 275-284.	1.9	7
18	On the numerical solution of the general kinetic α -reaction system. Journal of Mathematical Chemistry, 2016, 54, 792-805.	1.5	5

#	ARTICLE	IF	CITATIONS
19	The Mystery of Intervals. <i>Reliable Computing</i> , 2001, 7, 63-65.	0.8	4
20	On Quasivector Spaces of Convex Bodies and Zonotopes. <i>Numerical Algorithms</i> , 2004, 37, 263-274.	1.9	4
21	A Model of Fatigue. <i>Ergonomics</i> , 1971, 14, 11-16.	2.1	3
22	Metabolic rate constants: Some computational aspects. <i>Mathematics and Computers in Simulation</i> , 2017, 133, 91-110.	4.4	3
23	Verified Computation of Fast Decreasing Polynomials. <i>Reliable Computing</i> , 1999, 5, 229-240.	0.8	2
24	On the numerical solution to linear problems using stochastic arithmetic. , 2006, , .		2
25	International Conference on Mathematical Methods and Models in Biosciences (Biomath) 2011. <i>Biotechnology and Biotechnological Equipment</i> , 2012, 26, 3242-3243.	1.3	1
26	Numerical Study of Algebraic Problems Using Stochastic Arithmetic. <i>Lecture Notes in Computer Science</i> , 2008, , 123-130.	1.3	0
27	Testing Stochastic Arithmetic and CESTAC Method Via Polynomial Computation. <i>Lecture Notes in Computer Science</i> , 2007, , 13-22.	1.3	0