

Enrico Formenti

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2877580/publications.pdf>

Version: 2024-02-01

85
papers

846
citations

516215

16
h-index

610482

24
g-index

92
all docs

92
docs citations

92
times ranked

189
citing authors

#	ARTICLE	IF	CITATIONS
1	Number-conserving cellular automata I: decidability. <i>Theoretical Computer Science</i> , 2003, 299, 523-535.	0.5	53
2	Non-uniform cellular automata: Classes, dynamics, and decidability. <i>Information and Computation</i> , 2012, 215, 32-46.	0.5	37
3	Ergodicity, transitivity, and regularity for linear cellular automata over Z_m . <i>Theoretical Computer Science</i> , 2000, 233, 147-164.	0.5	36
4	Number conserving cellular automata II: dynamics. <i>Theoretical Computer Science</i> , 2003, 304, 269-290.	0.5	34
5	Conservation of some dynamical properties for operations on cellular automata. <i>Theoretical Computer Science</i> , 2009, 410, 3685-3693.	0.5	33
6	m-Asynchronous cellular automata: from fairness to quasi-fairness. <i>Natural Computing</i> , 2013, 12, 561-572.	1.8	33
7	Local rule distributions, language complexity and non-uniform cellular automata. <i>Theoretical Computer Science</i> , 2013, 504, 38-51.	0.5	31
8	Multidimensional cellular automata: closing property, quasi-expansivity, and (un)decidability issues. <i>Theoretical Computer Science</i> , 2014, 516, 40-59.	0.5	31
9	Computing Issues of Asynchronous CA. <i>Fundamenta Informaticae</i> , 2012, 120, 165-180.	0.3	30
10	Some results about the chaotic behavior of cellular automata. <i>Theoretical Computer Science</i> , 2005, 349, 318-336.	0.5	24
11	Subshift attractors of cellular automata. <i>Nonlinearity</i> , 2007, 20, 105-117.	0.6	21
12	Advances on Random Sequence Generation by Uniform Cellular Automata. <i>Lecture Notes in Computer Science</i> , 2014, , 56-70.	1.0	21
13	On the complexity of occurrence and convergence problems in reaction systems. <i>Natural Computing</i> , 2015, 14, 185-191.	1.8	20
14	Ancestors, descendants, and gardens of Eden in reaction systems. <i>Theoretical Computer Science</i> , 2015, 608, 16-26.	0.5	20
15	Computational complexity of finite asynchronous cellular automata. <i>Theoretical Computer Science</i> , 2017, 664, 131-143.	0.5	19
16	Periodic Orbits and Dynamical Complexity in Cellular Automata. <i>Fundamenta Informaticae</i> , 2013, 126, 183-199.	0.3	18
17	Complexity of the dynamics of reaction systems. <i>Information and Computation</i> , 2019, 267, 96-109.	0.5	18
18	On the dynamical behaviour of linear higher-order cellular automata and its decidability. <i>Information Sciences</i> , 2019, 486, 73-87.	4.0	18

#	ARTICLE	IF	CITATIONS
19	Mutually orthogonal latin squares based on cellular automata. Designs, Codes, and Cryptography, 2020, 88, 391-411.	1.0	18
20	Fixed Points and Attractors of Reaction Systems. Lecture Notes in Computer Science, 2014, , 194-203.	1.0	18
21	Transformations of the one-dimensional cellular automata rule space. Parallel Computing, 1997, 23, 1593-1611.	1.3	13
22	On the hierarchy of conservation laws in a cellular automaton. Natural Computing, 2011, 10, 1275-1294.	1.8	13
23	Decidable Properties of 2D Cellular Automata. Lecture Notes in Computer Science, 2008, , 264-275.	1.0	13
24	From sandpiles to sand automata. Theoretical Computer Science, 2007, 381, 1-28.	0.5	12
25	Three research directions in non-uniform cellular automata. Theoretical Computer Science, 2014, 559, 73-90.	0.5	12
26	Reaction systems and extremal combinatorics properties. Theoretical Computer Science, 2015, 598, 138-149.	0.5	12
27	Chaos and ergodicity are decidable for linear cellular automata over \mathbb{Z}_m . http://www.w3.org/1998/Math/MathML  $\langle \text{mml:mrow} \langle \text{mml:msup} \langle \text{mml:mrow} \langle \text{mml:mo stretchy}=\text{"true"} \rangle \langle \text{mml:mo} \langle \text{mml:mi} \text{Tj ETQq} \frac{1}{4.0} 0.784314 \text{rgBT} \frac{1}{12} \rangle \rangle \rangle \rangle$	0.784314	12
28	On the sensitivity of additive cellular automata in Besicovitch topologies. Theoretical Computer Science, 2003, 301, 341-354.	0.5	11
29	Dynamical behavior of additive cellular automata over finite abelian groups. Theoretical Computer Science, 2020, 843, 45-56.	0.5	11
30	On the Dynamics of PB Systems: A Petri Net View. Lecture Notes in Computer Science, 2004, , 153-167.	1.0	11
31	On ergodic linear cellular automata over \mathbb{Z}_m . Lecture Notes in Computer Science, 1997, , 427-438.	1.0	10
32	Computing the periods of preimages in surjective cellular automata. Natural Computing, 2017, 16, 367-381.	1.8	9
33	Cycles and Global Attractors of Reaction Systems. Lecture Notes in Computer Science, 2014, , 114-125.	1.0	9
34	Non-uniform Cellular Automata. Lecture Notes in Computer Science, 2009, , 302-313.	1.0	9
35	Surjective multidimensional cellular automata are non-wandering: A combinatorial proof. Information Processing Letters, 2013, 113, 156-159.	0.4	8
36	Decidable characterizations of dynamical properties for additive cellular automata over a finite abelian group with applications to data encryption. Information Sciences, 2021, 563, 183-195.	4.0	8

#	ARTICLE	IF	CITATIONS
37	Enumerating Orthogonal Latin Squares Generated by Bipermutive Cellular Automata. Lecture Notes in Computer Science, 2017, , 151-164.	1.0	8
38	m-Asynchronous Cellular Automata. Lecture Notes in Computer Science, 2012, , 653-662.	1.0	8
39	Computational Complexity of Avalanches in the Kadanoff Sandpile Model. Fundamenta Informaticae, 2012, 115, 107-124.	0.3	7
40	Shifting and Lifting of Cellular Automata. Lecture Notes in Computer Science, 2007, , 1-10.	1.0	7
41	Cellular Automata Dynamical Systems. , 2012, , 25-75.		6
42	Fixed-point forms of the parallel symmetric sandpile model. Theoretical Computer Science, 2014, 533, 1-14.	0.5	6
43	How Hard is it to Predict Sandpiles on Lattices? A Survey. Fundamenta Informaticae, 2019, 171, 189-219.	0.3	6
44	On Sand Automata. Lecture Notes in Computer Science, 2003, , 642-653.	1.0	5
45	Non Uniform Cellular Automata Description of Signed Partition Versions of Ice and Sand Pile Models. Lecture Notes in Computer Science, 2014, , 115-124.	1.0	5
46	A Search Algorithm for the Maximal Attractor of a Cellular Automaton. , 2007, , 356-366.		5
47	A new dimension sensitive property for cellular automata. Theoretical Computer Science, 2005, 345, 235-247.	0.5	4
48	From Tetris to polyominoes generation. Electronic Notes in Discrete Mathematics, 2017, 59, 79-98.	0.4	4
49	An Iterated Local Search to find many solutions of the 6-states Firing Squad Synchronization Problem. Applied Soft Computing Journal, 2018, 66, 449-461.	4.1	4
50	Polynomial Equations over Finite, Discrete-Time Dynamical Systems. Lecture Notes in Computer Science, 2018, , 298-306.	1.0	4
51	An efficiently computable characterization of stability and instability for linear cellular automata. Journal of Computer and System Sciences, 2021, 122, 63-71.	0.9	4
52	A New Dimension Sensitive Property for Cellular Automata. Lecture Notes in Computer Science, 2004, , 416-426.	1.0	4
53	Computational Aspects of Asynchronous Cellular Automata. Lecture Notes in Computer Science, 2011, , 466-468.	1.0	4
54	Sofic Trace Subshift of a Cellular Automaton. Lecture Notes in Computer Science, 2007, , 152-161.	1.0	4

#	ARTICLE	IF	CITATIONS
55	Computational Complexity of the Avalanche Problem on One Dimensional Kadanoff Sandpiles. Lecture Notes in Computer Science, 2015, , 21-30.	1.0	4
56	A Search Algorithm for Subshift Attractors of Cellular Automata. Theory of Computing Systems, 2010, 46, 479-498.	0.7	3
57	On Symmetric Sandpiles. Lecture Notes in Computer Science, 2006, , 676-685.	1.0	3
58	Reachability in Resource-Bounded Reaction Systems. Lecture Notes in Computer Science, 2016, , 592-602.	1.0	3
59	Algorithmic Information Theory and Cellular Automata Dynamics. Lecture Notes in Computer Science, 2001, , 248-260.	1.0	2
60	On the Generation of 2-Polyominoes. Lecture Notes in Computer Science, 2018, , 101-113.	1.0	2
61	The Most General Conservation Law for a Cellular Automaton. , 2008, , 194-203.		2
62	Computational Complexity of Rule Distributions of Non-uniform Cellular Automata. Lecture Notes in Computer Science, 2012, , 204-215.	1.0	2
63	Dynamics of Cellular Automata in Noncompact Spaces. , 2009, , 323-335.		2
64	Extremal Combinatorics of Reaction Systems. Lecture Notes in Computer Science, 2014, , 297-307.	1.0	2
65	Algorithmic Complexity and Cellular Automata. , 2012, , 132-146.		1
66	Foreword: asynchronous cellular automata and applications. Natural Computing, 2013, 12, 537-538.	1.8	1
67	Foreword: cellular automata and applications. Natural Computing, 2013, 12, 305-305.	1.8	1
68	Chaotic Behavior of Cellular Automata. , 2012, , 479-489.		1
69	Decidability of Sensitivity and Equicontinuity for Linear Higher-Order Cellular Automata. Lecture Notes in Computer Science, 2019, , 95-107.	1.0	1
70	Solving Equations on Discrete Dynamical Systems. Lecture Notes in Computer Science, 2020, , 119-132.	1.0	1
71	Acceptance Conditions for $\bar{1}$ -Languages. Lecture Notes in Computer Science, 2012, , 320-331.	1.0	1
72	A Survey on m-Asynchronous Cellular Automata. Lecture Notes in Computer Science, 2013, , 46-66.	1.0	1

#	ARTICLE	IF	CITATIONS
73	Non-maximal Sensitivity to Synchronism in Periodic Elementary Cellular Automata: Exact Asymptotic Measures. Lecture Notes in Computer Science, 2020, , 14-28.	1.0	1
74	Non-maximal sensitivity to synchronism in elementary cellular automata: exact asymptotic measures. Theoretical Computer Science, 2022, , .	0.5	1
75	Foreword: asynchronous cellular automata and nature-inspired computation. Natural Computing, 2012, 11, 267-268.	1.8	0
76	On the impact of the distance between two genes on their interaction curve. Journal of Mathematical Biology, 2012, 64, 131-147.	0.8	0
77	Non-uniform Cellular Automata. Theoretical Computer Science, 2014, 559, 1-2.	0.5	0
78	Foreword: asynchronous behavior of cellular automata and discrete models. Natural Computing, 2015, 14, 505-506.	1.8	0
79	MDDs Boost Equation Solving on Discrete Dynamical Systems. Lecture Notes in Computer Science, 2021, , 196-213.	1.0	0
80	High Order Cellular Automata for Edge Detection: A Preliminary Study. Lecture Notes in Computer Science, 2021, , 80-89.	1.0	0
81	Dynamics of Cellular Automata in Non-compact Spaces. , 2012, , 914-924.		0
82	Asymptotic Dynamics of (Some) Asynchronous Cellular Automata. Lecture Notes in Computer Science, 2013, , 1-2.	1.0	0
83	$\bar{\mu}$ -rational Languages: High Complexity Classes vs. Borel Hierarchy. Lecture Notes in Computer Science, 2014, , 372-383.	1.0	0
84	Chaotic Behavior of Cellular Automata. , 2017, , 1-15.		0
85	Chaotic Behavior of Cellular Automata. , 2018, , 357-371.		0