

Maciej Koutny

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

1,333
citations

430754

18
h-index

377752

34
g-index

91
all docs

91
docs citations

91
times ranked

436
citing authors

#	ARTICLE	IF	CITATIONS
1	Opacity generalised to transition systems. <i>International Journal of Information Security</i> , 2008, 7, 421-435.	2.3	187
2	Modelling Opacity Using Petri Nets. <i>Electronic Notes in Theoretical Computer Science</i> , 2005, 121, 101-115.	0.9	133
3	Canonical prefixes of Petri net unfoldings. <i>Acta Informatica</i> , 2003, 40, 95-118.	0.5	116
4	Framed temporal logic programming. <i>Science of Computer Programming</i> , 2008, 70, 31-61.	1.5	88
5	Structure of concurrency. <i>Theoretical Computer Science</i> , 1993, 112, 5-52.	0.5	74
6	A framed temporal logic programming language. <i>Journal of Computer Science and Technology</i> , 2004, 19, 341-351.	0.9	46
7	Concurrent and maximally concurrent evolution of nonsequential systems. <i>Theoretical Computer Science</i> , 1986, 43, 213-238.	0.5	40
8	Opacity Generalised to Transition Systems. <i>Lecture Notes in Computer Science</i> , 2006, , 81-95.	1.0	37
9	Canonical Prefixes of Petri Net Unfoldings. <i>Lecture Notes in Computer Science</i> , 2002, , 582-595.	1.0	35
10	Fundamentals of modelling concurrency using discrete relational structures. <i>Acta Informatica</i> , 1997, 34, 367-388.	0.5	33
11	Merged processes: a new condensed representation of Petri net behaviour. <i>Acta Informatica</i> , 2006, 43, 307-330.	0.5	33
12	Towards an Efficient Algorithm for Unfolding Petri Nets. <i>Lecture Notes in Computer Science</i> , 2001, , 366-380.	1.0	32
13	Operational and denotational semantics for the box algebra. <i>Theoretical Computer Science</i> , 1999, 211, 1-83.	0.5	29
14	Evolving reaction systems. <i>Theoretical Computer Science</i> , 2017, 682, 79-99.	0.5	26
15	Timed Mobility in process algebra and Petri nets. <i>The Journal of Logic and Algebraic Programming</i> , 2011, 80, 377-391.	1.4	21
16	A compositional Petri net translation of general λ -calculus terms. <i>Formal Aspects of Computing</i> , 2008, 20, 429-450.	1.4	19
17	A Petri net model for membrane systems with dynamic structure. <i>Natural Computing</i> , 2009, 8, 781-796.	1.8	19
18	Step traces. <i>Acta Informatica</i> , 2016, 53, 35-65.	0.5	18

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19	Reversible computation vs. reversibility in Petri nets. Science of Computer Programming, 2018, 151, 48-60.	1.5	17
20	Modelling Dynamic Opacity Using Petri Nets with Silent Actions. , 2004, , 159-172.		15
21	On Causality Semantics of Nets with Priorities. Fundamenta Informaticae, 1999, 38, 223-255.	0.3	14
22	Synthesis of Nets with Step Firing Policies. Fundamenta Informaticae, 2009, 94, 275-303.	0.3	14
23	Synchrony and Asynchrony in Membrane Systems. Lecture Notes in Computer Science, 2006, , 66-85.	1.0	13
24	Processes of membrane systems with promoters and inhibitors. Theoretical Computer Science, 2008, 404, 112-126.	0.5	12
25	Structured Occurrence Nets: A Formalism for Aiding System Failure Prevention and Analysis Techniques. Fundamenta Informaticae, 2009, 97, 41-91.	0.3	12
26	Step semantics of boolean nets. Acta Informatica, 2013, 50, 15-39.	0.5	12
27	Formal verification of secure information flow in cloud computing. Journal of Information Security and Applications, 2016, 27-28, 103-116.	1.8	11
28	The Box Algebra=Petri Nets+Process Expressions. Information and Computation, 2002, 178, 44-100.	0.5	10
29	Characterising Concurrent Histories. Fundamenta Informaticae, 2015, 139, 21-42.	0.3	10
30	Modelling and analysis of corporate efficiency and productivity loss associated with enterprise information security technologies. Journal of Information Security and Applications, 2019, 49, 102385.	1.8	10
31	Mutex Causality in Processes and Traces of General Elementary Nets. Fundamenta Informaticae, 2013, 122, 119-146.	0.3	9
32	Causality in Structured Occurrence Nets. Lecture Notes in Computer Science, 2011, , 283-297.	1.0	8
33	Folded Hasse diagrams of combined traces. Information Processing Letters, 2014, 114, 208-216.	0.4	7
34	Verification of Linear-Time Temporal Properties for Reaction Systems with Discrete Concentrations. Fundamenta Informaticae, 2017, 154, 289-306.	0.3	7
35	Quantitative Analysis of Opacity in Cloud Computing Systems. IEEE Transactions on Cloud Computing, 2021, 9, 1210-1219.	3.1	7
36	Classifying invariant structures of step traces. Journal of Computer and System Sciences, 2019, 104, 297-322.	0.9	7

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37	Merged Processes – A New Condensed Representation of Petri Net Behaviour. Lecture Notes in Computer Science, 2005, , 338-352.	1.0	7
38	Failures: Their Definition, Modelling and Analysis. Lecture Notes in Computer Science, 2007, , 260-274.	1.0	7
39	A Petri Net Semantics of a Simple Process Algebra for Mobility. Electronic Notes in Theoretical Computer Science, 2006, 154, 71-94.	0.9	6
40	Verification of bounded Petri nets using integer programming. Formal Methods in System Design, 2007, 30, 143-176.	0.9	6
41	Two implementation relations and the correctness of communicating replicated processes. Formal Aspects of Computing, 1997, 9, 119-148.	1.4	5
42	Opacity in Internet of Things with Cloud Computing (Short Paper). , 2015, , .		5
43	Persistent and Nonviolent Steps and the Design of GALS Systems. Fundamenta Informaticae, 2015, 137, 143-170.	0.3	5
44	Applying regions. Theoretical Computer Science, 2017, 658, 205-215.	0.5	5
45	Reversing Transitions in Bounded Petri Nets. Fundamenta Informaticae, 2018, 157, 341-357.	0.3	5
46	Non-atomic Transition Firing in Contextual Nets. Lecture Notes in Computer Science, 2015, , 117-136.	1.0	5
47	Membrane Systems with Qualitative Evolution Rules. Fundamenta Informaticae, 2011, 110, 217-230.	0.3	4
48	Verifying Secure Information Flow in Federated Clouds. , 2014, , .		4
49	Operational Semantics, Interval Orders and Sequences of Antichains. Fundamenta Informaticae, 2019, 169, 31-55.	0.3	4
50	On Specification and Verification of Location-Based Fault Tolerant Mobile Systems. Lecture Notes in Computer Science, 2006, , 168-188.	1.0	4
51	Strategy based semantics for mobility with time and access permissions. Formal Aspects of Computing, 2015, 27, 525-549.	1.4	3
52	Invariant Structures and Dependence Relations. Fundamenta Informaticae, 2017, 155, 1-29.	0.3	3
53	Plug-in context providers for reaction systems. Theoretical Computer Science, 2020, 834, 26-42.	0.5	3
54	Relational structures for concurrent behaviours. Theoretical Computer Science, 2021, 862, 174-192.	0.5	3

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55	Reaction Systems, Transition Systems, and Equivalences. Lecture Notes in Computer Science, 2018, , 63-84.	1.0	3
56	Process Algebra. Lecture Notes in Computer Science, 2004, , 180-209.	1.0	3
57	The Merlin-Randell problem of train journeys. Acta Informatica, 1986, 23, 429-463.	0.5	2
58	Recursion and Petri nets. Acta Informatica, 2001, 37, 781-829.	0.5	2
59	ITL semantics of composite Petri nets. The Journal of Logic and Algebraic Programming, 2013, 82, 95-110.	1.4	2
60	Modeling biological gradient formation: combining partial differential equations and Petri nets. Natural Computing, 2016, 15, 665-675.	1.8	2
61	Alphabets of Acyclic Invariant Structures. Fundamenta Informaticae, 2017, 154, 207-224.	0.3	2
62	From Box Algebra to Interval Temporal Logic. Fundamenta Informaticae, 2019, 167, 323-354.	0.3	2
63	Reaction Systems and Enabling Equivalence. Fundamenta Informaticae, 2019, 171, 261-277.	0.3	2
64	Order Structures for Subclasses of Generalised Traces. Lecture Notes in Computer Science, 2015, , 689-700.	1.0	2
65	Invariants and Paradigms of Concurrency Theory. Lecture Notes in Computer Science, 1991, , 481-496.	1.0	2
66	Towards Quantitative Analysis of Opacity. Lecture Notes in Computer Science, 2013, , 145-163.	1.0	2
67	Identification of regular configurations with partial information. International Journal of Man-Machine Studies, 1985, 22, 581-587.	0.7	1
68	Minimal Regions of ENL-Transition Systems. Fundamenta Informaticae, 2010, 101, 45-58.	0.3	1
69	Asynchrony and persistence in reaction systems. Theoretical Computer Science, 2021, 881, 97-110.	0.5	1
70	Synthesis Problem for Petri Nets with Localities. Lecture Notes in Computer Science, 2012, , 160-180.	1.0	1
71	Membrane Systems and Petri Net Synthesis. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 100, 1-13.	0.8	1
72	Interval Temporal Logic Semantics of Box Algebra. Lecture Notes in Computer Science, 2014, , 441-452.	1.0	1

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73	Reaction Mining for Reaction Systems. Lecture Notes in Computer Science, 2018, , 131-144.	1.0	1
74	Using Net Refinement to Compute the Fixpoint of a Recursive Expression. Electronic Notes in Theoretical Computer Science, 1995, 2, 27-28.	0.9	0
75	Peter Lauer and COSY. Fundamenta Informaticae, 1999, 40, 103-107.	0.3	0
76	Step coverability algorithms for communicating systems. Science of Computer Programming, 2012, 77, 955-967.	1.5	0
77	An extension of the taxonomy of persistent and nonviolent steps. Information Sciences, 2017, 394-395, 299-314.	4.0	0
78	Signal set tissue systems and overlapping localities. Theoretical Computer Science, 2017, 701, 132-145.	0.5	0
79	Methods for Distributed and Concurrent Systems: Special Issue on the occasion of the 60th Birthday of Professor Gabriel Ciobanu. Fundamenta Informaticae, 2017, 153, v-vi.	0.3	0
80	Petri Nets with Localities and Testing. Lecture Notes in Computer Science, 2010, , 19-38.	1.0	0
81	Axiom System Induced by CTL* Logic. Fundamenta Informaticae, 1991, 14, 235-253.	0.3	0