Maciej Koutny

List of Publications by Year
in descending order

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	Quantitative Analysis of Opacity in Cloud Computing Systems. IEEE Transactions on Cloud Computing, 2021, 9, 1210-1219.	3.1	7
2	Relational structures for concurrent behaviours. Theoretical Computer Science, 2021, 862, 174-192.	0.5	3
3	Asynchrony and persistence in reaction systems. Theoretical Computer Science, 2021, 881, 97-110.	0.5	1
4	Plug-in context providers for reaction systems. Theoretical Computer Science, 2020, 834, 26-42.	0.5	3
5	From Box Algebra to Interval Temporal Logic. Fundamenta Informaticae, 2019, 167, 323-354.	0.3	2
6	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
7	Operational Semantics, Interval Orders and Sequences of Antichains. Fundamenta Informaticae, 2019, 169, 31-55.	0.3	4
8	Reaction Systems and Enabling Equivalence. Fundamenta Informaticae, 2019, 171, 261-277.	0.3	2
9	Classifying invariant structures of step traces. Journal of Computer and System Sciences, 2019, 104, 297-322.	0.9	7
10	Reversing Transitions in Bounded Petri Nets. Fundamenta Informaticae, 2018, 157, 341-357.	0.3	5
11	Reversible computation vs. reversibility in Petri nets. Science of Computer Programming, 2018, 151, 48-60.	1.5	17
12	Reaction Systems, Transition Systems, and Equivalences. Lecture Notes in Computer Science, 2018, , 63-84.	1.0	3
13	Reaction Mining for Reaction Systems. Lecture Notes in Computer Science, 2018, , 131-144.	1.0	1
14	Applying regions. Theoretical Computer Science, 2017, 658, 205-215.	0.5	5
15	Evolving reaction systems. Theoretical Computer Science, 2017, 682, 79-99.	0.5	26
16	An extension of the taxonomy of persistent and nonviolent steps. Information Sciences, 2017, 394-395, 299-314.	4.0	0
17	Signal set tissue systems and overlapping localities. Theoretical Computer Science, 2017, 701, 132-145.	0.5	0
18	Invariant Structures and Dependence Relations. Fundamenta Informaticae, 2017, 155, 1-29.	0.3	3

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19	Alphabets of Acyclic Invariant Structures. Fundamenta Informaticae, 2017, 154, 207-224.	0.3	2
20	Verification of Linear-Time Temporal Properties for Reaction Systems with Discrete Concentrations. Fundamenta Informaticae, 2017, 154, 289-306.	0.3	7
21	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
22	Step traces. Acta Informatica, 2016, 53, 35-65.	0.5	18
23	Formal verification of secure information flow in cloud computing. Journal of Information Security and Applications, 2016, 27-28, 103-116.	1.8	11
24	Modeling biological gradient formation: combining partial differential equations and Petri nets. Natural Computing, 2016, 15, 665-675.	1.8	2
25	Characterising Concurrent Histories. Fundamenta Informaticae, 2015, 139, 21-42.	0.3	10
26	Opacity in Internet of Things with Cloud Computing (Short Paper). , 2015, , .		5
27	Persistent and Nonviolent Steps and the Design of GALS Systems. Fundamenta Informaticae, 2015, 137, 143-170.	0.3	5
28	Strategy based semantics for mobility with time and access permissions. Formal Aspects of Computing, 2015, 27, 525-549.	1.4	3
29	Order Structures for Subclasses of Generalised Traces. Lecture Notes in Computer Science, 2015, , 689-700.	1.0	2
30	Non-atomic Transition Firing in Contextual Nets. Lecture Notes in Computer Science, 2015, , 117-136.	1.0	5
31	Verifying Secure Information Flow in Federated Clouds. , 2014, , .		4
32	Folded Hasse diagrams of combined traces. Information Processing Letters, 2014, 114, 208-216.	0.4	7
33	Interval Temporal Logic Semantics of Box Algebra. Lecture Notes in Computer Science, 2014, , 441-452.	1.0	1
34	Step semantics of boolean nets. Acta Informatica, 2013, 50, 15-39.	0.5	12
35	ITL semantics of composite Petri nets. The Journal of Logic and Algebraic Programming, 2013, 82, 95-110.	1.4	2
36	Mutex Causality in Processes and Traces of General Elementary Nets. Fundamenta Informaticae, 2013, 122, 119-146.	0.3	9

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37	Towards Quantitative Analysis of Opacity. Lecture Notes in Computer Science, 2013, , 145-163.	1.0	2
38	Step coverability algorithms for communicating systems. Science of Computer Programming, 2012, 77, 955-967.	1.5	0
39	Synthesis Problem for Petri Nets with Localities. Lecture Notes in Computer Science, 2012, , 160-180.	1.0	1
40	Membrane Systems with Qualitative Evolution Rules. Fundamenta Informaticae, 2011, 110, 217-230.	0.3	4
41	Timed Mobility in process algebra and Petri nets. The Journal of Logic and Algebraic Programming, 2011, 80, 377-391.	1.4	21
42	Causality in Structured Occurrence Nets. Lecture Notes in Computer Science, 2011, , 283-297.	1.0	8
43	Minimal Regions of ENL-Transition Systems. Fundamenta Informaticae, 2010, 101, 45-58.	0.3	1
44	Petri Nets with Localities and Testing. Lecture Notes in Computer Science, 2010, , 19-38.	1.0	0
45	Structured Occurrence Nets: A Formalism for Aiding System Failure Prevention and Analysis Techniques. Fundamenta Informaticae, 2009, 97, 41-91.	0.3	12
46	Synthesis of Nets with Step Firing Policies. Fundamenta Informaticae, 2009, 94, 275-303.	0.3	14
47	A Petri net model for membrane systems with dynamic structure. Natural Computing, 2009, 8, 781-796.	1.8	19
48	Processes of membrane systems with promoters and inhibitors. Theoretical Computer Science, 2008, 404, 112-126.	0.5	12
49	A compositional Petri net translation of general Ï€-calculus terms. Formal Aspects of Computing, 2008, 20, 429-450.	1.4	19
50	Opacity generalised to transition systems. International Journal of Information Security, 2008, 7, 421-435.	2.3	187
51	Framed temporal logic programming. Science of Computer Programming, 2008, 70, 31-61.	1.5	88
52	Verification of bounded Petri nets using integer programming. Formal Methods in System Design, 2007, 30, 143-176.	0.9	6
53	Failures: Their Definition, Modelling and Analysis. Lecture Notes in Computer Science, 2007, , 260-274.	1.0	7
54	A Petri Net Semantics of a Simple Process Algebra for Mobility. Electronic Notes in Theoretical Computer Science, 2006, 154, 71-94.	0.9	6

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55	Merged processes: a new condensed representation of Petri net behaviour. Acta Informatica, 2006, 43, 307-330.	0.5	33
56	Opacity Generalised to Transition Systems. Lecture Notes in Computer Science, 2006, , 81-95.	1.0	37
57	Synchrony and Asynchrony in Membrane Systems. Lecture Notes in Computer Science, 2006, , 66-85.	1.0	13
58	On Specification and Verification of Location-Based Fault Tolerant Mobile Systems. Lecture Notes in Computer Science, 2006, , 168-188.	1.0	4
59	Modelling Opacity Using Petri Nets. Electronic Notes in Theoretical Computer Science, 2005, 121, 101-115.	0.9	133
60	Merged Processes â€" A New Condensed Representation of Petri Net Behaviour. Lecture Notes in Computer Science, 2005, , 338-352.	1.0	7
61	A framed temporal logic programming language. Journal of Computer Science and Technology, 2004, 19, 341-351.	0.9	46
62	Modelling Dynamic Opacity Using Petri Nets with Silent Actions. , 2004, , 159-172.		15
63	Process Algebra. Lecture Notes in Computer Science, 2004, , 180-209.	1.0	3
64	Canonical prefixes of Petri net unfoldings. Acta Informatica, 2003, 40, 95-118.	0.5	116
65	The Box Algebra=Petri Nets+Process Expressions. Information and Computation, 2002, 178, 44-100.	0.5	10
66	Canonical Prefixes of Petri Net Unfoldings. Lecture Notes in Computer Science, 2002, , 582-595.	1.0	35
67	Recursion and Petri nets. Acta Informatica, 2001, 37, 781-829.	0.5	2
68	Towards an Efficient Algorithm for Unfolding Petri Nets. Lecture Notes in Computer Science, 2001, , 366-380.	1.0	32
69	Peter Lauer and COSY. Fundamenta Informaticae, 1999, 40, 103-107.	0.3	0
70	On Causality Semantics of Nets with Priorities. Fundamenta Informaticae, 1999, 38, 223-255.	0.3	14
71	Operational and denotational semantics for the box algebra. Theoretical Computer Science, 1999, 211, 1-83.	0.5	29
72	Fundamentals of modelling concurrency using discrete relational structures. Acta Informatica, 1997, 34, 367-388.	0.5	33

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73	Two implementation relations and the correctness of communicating replicated processes. Formal Aspects of Computing, 1997, 9, 119-148.	1.4	5
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	Structure of concurrency. Theoretical Computer Science, 1993, 112, 5-52.	0.5	74
76	Invariants and Paradigms of Concurrency Theory. Lecture Notes in Computer Science, 1991, , 481-496.	1.0	2
77	Axiom System Induced by CTL* Logic. Fundamenta Informaticae, 1991, 14, 235-253.	0.3	0
78	The Merlin-Randell problem of train journeys. Acta Informatica, 1986, 23, 429-463.	0.5	2
79	Concurrent and maximally concurrent evolution of nonsequential systems. Theoretical Computer Science, 1986, 43, 213-238.	0.5	40
80	Identification of regular configurations with partial information. International Journal of Man-Machine Studies, 1985, 22, 581-587.	0.7	1
81	Membrane Systems and Petri Net Synthesis. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 100, 1-13.	0.8	1