

Rocco De Nicola

List of Publications by Year in descending order

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Version: 2024-02-01

171
papers

4,339
citations

201385

27
h-index

138251

58
g-index

182
all docs

182
docs citations

182
times ranked

1176
citing authors

#	ARTICLE	IF	CITATIONS
1	Testing equivalences for processes. Theoretical Computer Science, 1984, 34, 83-133.	0.5	920
2	KLAIM: a kernel language for agents interaction and mobility. IEEE Transactions on Software Engineering, 1998, 24, 315-330.	4.3	390
3	Three logics for branching bisimulation. Journal of the ACM, 1995, 42, 458-487.	1.8	208
4	Extensional equivalences for transition systems. Acta Informatica, 1987, 24, 211-237.	0.5	200
5	A distributed operational semantics for CCS based on condition/event systems. Acta Informatica, 1988, 26, 59-91.	0.5	139
6	A Formal Approach to Autonomic Systems Programming. ACM Transactions on Autonomous and Adaptive Systems, 2014, 9, 1-29.	0.4	105
7	SCC: A Service Centered Calculus. Lecture Notes in Computer Science, 2006, , 38-57.	1.0	92
8	Sessions and Pipelines for Structured Service Programming. Lecture Notes in Computer Science, 2008, , 19-38.	1.0	79
9	Types for access control. Theoretical Computer Science, 2000, 240, 215-254.	0.5	69
10	An action-based framework for verifying logical and behavioural properties of concurrent systems. Computer Networks, 1993, 25, 761-778.	1.0	66
11	The role of bot squads in the political propaganda on Twitter. Communications Physics, 2020, 3, .	2.0	62
12	Model checking mobile stochastic logic. Theoretical Computer Science, 2007, 382, 42-70.	0.5	58
13	Proof Techniques for Cryptographic Processes. SIAM Journal on Computing, 2001, 31, 947-986.	0.8	55
14	Klava: a Java package for distributed and mobile applications. Software - Practice and Experience, 2002, 32, 1365-1394.	2.5	55
15	The Klaim Project: Theory and Practice. Lecture Notes in Computer Science, 2003, , 88-150.	1.0	53
16	The SCEL Language: Design, Implementation, Verification. Lecture Notes in Computer Science, 2015, , 3-71.	1.0	48
17	SLAC: A Formal Service-Level-Agreement Language for Cloud Computing. , 2014, , .		45
18	Trace and Testing Equivalence on Asynchronous Processes. Information and Computation, 2002, 172, 139-164.	0.5	44

#	ARTICLE	IF	CITATIONS
19	Semantic subtyping for the pi-calculus. <i>Theoretical Computer Science</i> , 2008, 398, 217-242.	0.5	36
20	A uniform definition of stochastic process calculi. <i>ACM Computing Surveys</i> , 2013, 46, 1-35.	16.1	36
21	Distributed service-level agreement management with smart contracts and blockchain. <i>Concurrency Computation Practice and Experience</i> , 2021, 33, e5800.	1.4	33
22	A Language-Based Approach to Autonomic Computing. <i>Lecture Notes in Computer Science</i> , 2013, , 25-48.	1.0	32
23	A calculus for attribute-based communication. , 2015, , .		32
24	Flow of online misinformation during the peak of the COVID-19 pandemic in Italy. <i>EPJ Data Science</i> , 2021, 10, 34.	1.5	32
25	On the Power of Attribute-Based Communication. <i>Lecture Notes in Computer Science</i> , 2016, , 1-18.	1.0	32
26	On the expressive power of KLAIM-based calculi. <i>Theoretical Computer Science</i> , 2006, 356, 387-421.	0.5	30
27	CARMA: Collective Adaptive Resource-sharing Markovian Agents. <i>Electronic Proceedings in Theoretical Computer Science</i> , EPTCS, 0, 194, 16-31.	0.8	30
28	Formal modeling and quantitative analysis of KLAIM-based mobile systems. , 2005, , .		29
29	Addressing Application Latency Requirements through Edge Scheduling. <i>Journal of Grid Computing</i> , 2019, 17, 677-698.	2.5	29
30	A Process Calculus for QoS-Aware Applications. <i>Lecture Notes in Computer Science</i> , 2005, , 33-48.	1.0	28
31	A uniform framework for modeling nondeterministic, probabilistic, stochastic, or mixed processes and their behavioral equivalences. <i>Information and Computation</i> , 2013, 225, 29-82.	0.5	28
32	Scheduling Latency-Sensitive Applications in Edge Computing. , 2018, , .		28
33	Rigorous engineering of collective adaptive systems: special section. <i>International Journal on Software Tools for Technology Transfer</i> , 2020, 22, 389-397.	1.7	27
34	Programming interactions in collective adaptive systems by relying on attribute-based communication. <i>Science of Computer Programming</i> , 2020, 192, 102428.	1.5	27
35	A modal logic for mobile agents. <i>ACM Transactions on Computational Logic</i> , 2004, 5, 79-128.	0.7	26
36	Smart Contract Negotiation in Cloud Computing. , 2017, , .		26

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37	Towards Distributed SLA Management with Smart Contracts and Blockchain. , 2018, , .		25
38	Translating Strong Mobility into Weak Mobility. Lecture Notes in Computer Science, 2001, , 182-197.	1.0	25
39	Rate-Based Transition Systems for Stochastic Process Calculi. Lecture Notes in Computer Science, 2009, , 435-446.	1.0	24
40	Basic observables for a calculus for global computing. Information and Computation, 2007, 205, 1491-1525.	0.5	20
41	Programming Access Control: The Klaim Experience. Lecture Notes in Computer Science, 2000, , 48-65.	1.0	20
42	A Life Cycle for the Development of Autonomic Systems: The E-mobility Showcase. , 2013, , .		19
43	A calculus for collective-adaptive systems and its behavioural theory. Information and Computation, 2019, 268, 104457.	0.5	19
44	Defining and guaranteeing dynamic service levels in clouds. Future Generation Computer Systems, 2019, 99, 27-40.	4.9	19
45	Types as Specifications of Access Policies. Lecture Notes in Computer Science, 1999, , 117-146.	1.0	19
46	Programming of CAS Systems by Relying on Attribute-Based Communication. Lecture Notes in Computer Science, 2016, , 539-553.	1.0	19
47	A Formal Basis for Reasoning on Programmable QoS. Lecture Notes in Computer Science, 2003, , 436-479.	1.0	19
48	Interactive mobile agents in X-KLAIM. , 0, , .		17
49	Relating strong behavioral equivalences for processes with nondeterminism and probabilities. Theoretical Computer Science, 2014, 546, 63-92.	0.5	17
50	Reasoning (on) Service Component Ensembles in Rewriting Logic. Lecture Notes in Computer Science, 2014, , 188-211.	1.0	17
51	Locality based Linda: Programming with explicit localities. Lecture Notes in Computer Science, 1997, , 712-726.	1.0	16
52	From Flow Logic to static type systems for coordination languages. Science of Computer Programming, 2010, 75, 376-397.	1.5	16
53	Dynamic SLAs for Clouds. Lecture Notes in Computer Science, 2016, , 34-49.	1.0	16
54	Software update via mobile agent based programming. , 2002, , .		15

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55	Sensoria Process Calculi for Service-Oriented Computing. Lecture Notes in Computer Science, 2007, , 30-50.	1.0	15
56	MarCaSPiS: a Markovian Extension of a Calculus for Services. Electronic Notes in Theoretical Computer Science, 2009, 229, 11-26.	0.9	15
57	Algebraic characterizations of trace and decorated trace equivalences over tree-like structures. Theoretical Computer Science, 2001, 254, 337-361.	0.5	14
58	AGILE: Software Architecture for Mobility. Lecture Notes in Computer Science, 2003, , 1-33.	1.0	14
59	Multi-agent systems with virtual stigmergy. Science of Computer Programming, 2020, 187, 102345.	1.5	14
60	Implementing Session Centered Calculi. Lecture Notes in Computer Science, 2008, , 17-32.	1.0	14
61	Revisiting Trace and Testing Equivalences for Nondeterministic and Probabilistic Processes. Logical Methods in Computer Science, 0, Volume 10, Issue 1, .	0.4	14
62	TAPAs: A Tool for the Analysis of Process Algebras. Lecture Notes in Computer Science, 2008, , 54-70.	1.0	14
63	X-Klaim and Klava. Electronic Notes in Theoretical Computer Science, 2002, 62, 24-37.	0.9	13
64	On the efficacy of old features for the detection of new bots. Information Processing and Management, 2021, 58, 102685.	5.4	13
65	Mobile Distributed Programming in X-Klaim. Lecture Notes in Computer Science, 2005, , 29-68.	1.0	13
66	Programming and Verifying Component Ensembles. Lecture Notes in Computer Science, 2014, , 69-83.	1.0	13
67	Models of Nondeterministic Regular Expressions. Journal of Computer and System Sciences, 1999, 59, 412-449.	0.9	12
68	Framework, Tools and Good Practices for Cybersecurity Curricula. IEEE Access, 2021, 9, 94723-94747.	2.6	12
69	Locality based semantics for process algebras. Acta Informatica, 1997, 34, 291-324.	0.5	11
70	Semantic Subtyping for the p-Calculus. , 0, , .		11
71	Confining data and processes in global computing applications. Science of Computer Programming, 2006, 63, 57-87.	1.5	11
72	Revisiting bisimilarity and its modal logic for nondeterministic and probabilistic processes. Acta Informatica, 2015, 52, 61-106.	0.5	11

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73	The DReAM framework for dynamic reconfigurable architecture modelling: theory and applications. International Journal on Software Tools for Technology Transfer, 2020, 22, 437-455.	1.7	11
74	6G Networks Physical Layer Security Using RGB Visible Light Communications. IEEE Access, 2022, 10, 5482-5496.	2.6	11
75	An Equational Axiomatization of Bisimulation over Regular Expressions. Journal of Logic and Computation, 2002, 12, 301-320.	0.5	10
76	Toward Formal Models and Languages for Verifiable Multi-Robot Systems. Frontiers in Robotics and AI, 2018, 5, 94.	2.0	10
77	Basic Observables for a Calculus for Global Computing. Lecture Notes in Computer Science, 2005, , 1226-1238.	1.0	10
78	Formalising Adaptation Patterns for Autonomic Ensembles. Lecture Notes in Computer Science, 2014, , 100-118.	1.0	10
79	Self-expression and Dynamic Attribute-Based Ensembles in SCEL. Lecture Notes in Computer Science, 2014, , 147-163.	1.0	10
80	Tree Morphisms and Bisimulations. Electronic Notes in Theoretical Computer Science, 1998, 18, 46-64.	0.9	9
81	Linda-based applicative and imperative process algebras. Theoretical Computer Science, 2000, 238, 389-437.	0.5	9
82	DReAM: Dynamic Reconfigurable Architecture Modeling. Lecture Notes in Computer Science, 2018, , 13-31.	1.0	9
83	Identification of credulous users on Twitter. , 2019, , .		9
84	On the Expressive Power of Klaim-based Calculi. Electronic Notes in Theoretical Computer Science, 2005, 128, 117-130.	0.9	8
85	CaSPiS: a calculus of sessions, pipelines and services. Mathematical Structures in Computer Science, 2015, 25, 666-709.	0.5	8
86	A Java Middleware for Guaranteeing Privacy of Distributed Tuple Spaces. Lecture Notes in Computer Science, 2003, , 175-184.	1.0	8
87	AErlang: Empowering Erlang with Attribute-Based Communication. Lecture Notes in Computer Science, 2017, , 21-39.	1.0	8
88	Nondeterministic regular expressions as solutions of equational systems. Theoretical Computer Science, 2003, 302, 179-189.	0.5	7
89	Pattern Matching over a Dynamic Network of Tuple Spaces. Lecture Notes in Computer Science, 2005, , 1-14.	1.0	7
90	Multiple-Labelled Transition Systems for nominal calculi and their logics. Mathematical Structures in Computer Science, 2008, 18, 107-143.	0.5	7

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91	AErlang: Empowering Erlang with attribute-based communication. Science of Computer Programming, 2018, 168, 71-93.	1.5	7
92	A Modal Logic for Klaim. Lecture Notes in Computer Science, 2000, , 339-354.	1.0	7
93	$\{C\}$ omathcal $\{A\}t$: Attribute-Based Interaction in Google Go. Lecture Notes in Computer Science, 2018, , 288-303.	1.0	7
94	On a Uniform Framework for the Definition of Stochastic Process Languages. Lecture Notes in Computer Science, 2009, , 9-25.	1.0	7
95	A Finite Axiomatization of Nondeterministic Regular Expressions. RAIRO - Theoretical Informatics and Applications, 1999, 33, 447-465.	0.5	7
96	Provably correct implementation of the AbC calculus. Science of Computer Programming, 2021, 202, 102567.	1.5	6
97	Global Computing in a Dynamic Network of Tuple Spaces. Lecture Notes in Computer Science, 2005, , 157-172.	1.0	6
98	A Flexible and Modular Framework for Implementing Infrastructures for Global Computing. Lecture Notes in Computer Science, 2005, , 181-193.	1.0	6
99	Graded Modalities and Resource Bisimulation. Lecture Notes in Computer Science, 1999, , 381-393.	1.0	6
100	Tuple Spaces Implementations and Their Efficiency. Lecture Notes in Computer Science, 2016, , 51-66.	1.0	6
101	A Distributed Coordination Infrastructure for Attribute-Based Interaction. Lecture Notes in Computer Science, 2018, , 1-20.	1.0	6
102	ABEL - A Domain Specific Framework for Programming with Attribute-Based Communication. Lecture Notes in Computer Science, 2019, , 111-128.	1.0	6
103	A Software Framework for Rapid Prototyping of Run-Time Systems for Mobile Calculi. Lecture Notes in Computer Science, 2005, , 179-207.	1.0	5
104	Towards a Logic for Performance and Mobility. Electronic Notes in Theoretical Computer Science, 2006, 153, 161-175.	0.9	5
105	Evaluating the efficiency of Linda implementations. Concurrency Computation Practice and Experience, 2018, 30, e4381.	1.4	5
106	MoMo: A Modal Logic for Reasoning About Mobility. Lecture Notes in Computer Science, 2005, , 95-119.	1.0	5
107	Verifying Properties of Systems Relying on Attribute-Based Communication. Lecture Notes in Computer Science, 2017, , 169-190.	1.0	5
108	Introduction to "Rigorous Engineering of Autonomic Ensembles" Track Introduction. Lecture Notes in Computer Science, 2014, , 96-98.	1.0	5

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109	On Integrating Social and Sensor Networks for Emergency Management. Lecture Notes in Computer Science, 2015, , 145-160.	1.0	5
110	Revisiting Trace and Testing Equivalences for Nondeterministic and Probabilistic Processes. Lecture Notes in Computer Science, 2012, , 195-209.	1.0	5
111	Multiparty Testing Preorders. Lecture Notes in Computer Science, 2016, , 16-31.	1.0	5
112	Verifying AbC Specifications via Emulation. Lecture Notes in Computer Science, 2020, , 261-279.	1.0	5
113	Verification of Distributed Systems via Sequential Emulation. ACM Transactions on Software Engineering and Methodology, 2022, 31, 1-41.	4.8	5
114	Asynchronous Observations of Processes. Lecture Notes in Computer Science, 1998, , 95-109.	1.0	4
115	Global computing in a dynamic network of tuple spaces. Science of Computer Programming, 2007, 64, 187-204.	1.5	4
116	Credulous Users and Fake News: a Real Case Study on the Propagation in Twitter. , 2020, , .		4
117	Formalizing Properties of Mobile Agent Systems. Lecture Notes in Computer Science, 2002, , 72-87.	1.0	4
118	Rigorous Engineering of Collective Adaptive Systems Introduction to the 2nd Track Edition. Lecture Notes in Computer Science, 2018, , 3-12.	1.0	4
119	Uniform Labeled Transition Systems for Nondeterministic, Probabilistic, and Stochastic Processes. Lecture Notes in Computer Science, 2010, , 35-56.	1.0	4
120	Core Calculi for Service-Oriented Computing. Lecture Notes in Computer Science, 2011, , 153-188.	1.0	4
121	Linear-Time and May-Testing in a Probabilistic Reactive Setting. Lecture Notes in Computer Science, 2011, , 29-43.	1.0	4
122	Domain-specific queries and Web search personalization: some investigations. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 188, 51-58.	0.8	4
123	AErlang at Work. Lecture Notes in Computer Science, 2017, , 485-497.	1.0	4
124	A Formal Approach to the Engineering of Domain-Specific Distributed Systems. Lecture Notes in Computer Science, 2018, , 110-141.	1.0	3
125	An Observational Semantics for Linda. Workshops in Computing, 1995, , 129-143.	0.4	3
126	Do You Really Follow Them? Automatic Detection of Credulous Twitter Users. Lecture Notes in Computer Science, 2019, , 402-410.	1.0	3

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127	Replica-Based High-Performance Tuple Space Computing. Lecture Notes in Computer Science, 2015, , 3-18.	1.0	3
128	Provably Correct Implementations of Services. Lecture Notes in Computer Science, 2009, , 69-86.	1.0	3
129	SoSL: A Service-Oriented Stochastic Logic. Lecture Notes in Computer Science, 2011, , 447-466.	1.0	3
130	Network-Aware Evaluation Environment for Reputation Systems. IFIP Advances in Information and Communication Technology, 2013, , 231-238.	0.5	3
131	Proving the Correctness of Optimising Destructive and Non-destructive Reads over Tuple Spaces. Lecture Notes in Computer Science, 2000, , 66-80.	1.0	3
132	From Flow Logic to Static Type Systems for Coordination Languages. Lecture Notes in Computer Science, 2008, , 100-116.	1.0	3
133	Stochastic modeling and analysis of the bitcoin protocol in the presence of block communication delays. Concurrency Computation Practice and Experience, 2023, 35, .	1.4	3
134	Divergence in testing and readiness semantics. Theoretical Computer Science, 2001, 266, 237-248.	0.5	2
135	Formulae Meet Programs Over the Net: A Framework for Correct Network Aware Programming. Automated Software Engineering, 2004, 11, 245-288.	2.2	2
136	Implementing a Distributed Mobile Calculus Using the IMC Framework. Electronic Notes in Theoretical Computer Science, 2007, 181, 63-79.	0.9	2
137	Multi Labelled Transition Systems: A Semantic Framework for Nominal Calculi. Electronic Notes in Theoretical Computer Science, 2007, 169, 133-146.	0.9	2
138	Modelling global computations with $\langle \text{scp} \rangle \text{Klaim} \langle / \text{scp} \rangle$. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 3737-3745.	1.6	2
139	Tree-functors, determinacy and bisimulations. Mathematical Structures in Computer Science, 2010, 20, 319-358.	0.5	2
140	Specifying and analysing reputation systems with a coordination language. , 2013, , .		2
141	A Homage to Martin Wirsing. Lecture Notes in Computer Science, 2015, , 1-12.	1.0	2
142	Integration of heterogeneous information sources for an effective emergency management. International Journal of Emergency Management, 2016, 12, 70.	0.2	2
143	The Meaning of Adaptation: Mastering the Unforeseen?. Lecture Notes in Computer Science, 2018, , 109-117.	1.0	2
144	Towards automatic translation of social network policies into controlled natural language. , 2018, , .		2

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145	A formal approach to the engineering of domain-specific distributed systems. Journal of Logical and Algebraic Methods in Programming, 2020, 111, 100511.	0.4	2
146	A behavioural analysis of credulous Twitter users. Online Social Networks and Media, 2021, 23, 100133.	2.3	2
147	Verification of Privacy-Enhanced Collaborations. , 2020, , .		2
148	Orchestrating Tuple-Based Languages. Lecture Notes in Computer Science, 2012, , 160-178.	1.0	2
149	The Spectrum of Strong Behavioral Equivalences for Nondeterministic and Probabilistic Processes. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 117, 81-96.	0.8	2
150	A Formal Approach to Autonomic Systems Programming: The SCEL Language. Lecture Notes in Computer Science, 2015, , 24-28.	1.0	2
151	Transparency in Keyword Faceted Search: An Investigation on Google Shopping. Communications in Computer and Information Science, 2019, , 29-43.	0.4	2
152	Exploring the relation between festivals and host cities on Twitter: a study on the impacts of Lucca Comics & Games. Information Technology and Tourism, 2020, 22, 625-648.	3.4	1
153	Group-by-Group Probabilistic Bisimilarities and Their Logical Characterizations. Lecture Notes in Computer Science, 2014, , 315-330.	1.0	1
154	Uniform Labeled Transition Systems for Nondeterministic, Probabilistic, and Stochastic Process Calculi. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 60, 66-75.	0.8	1
155	Ugo Montanari in a Nutshell. Lecture Notes in Computer Science, 2008, , 1-8.	1.0	1
156	Twitlang(er): Interactions Modeling Language (and Interpreter) for Twitter. Lecture Notes in Computer Science, 2015, , 327-343.	1.0	1
157	Replicating Data for Better Performances in X10. Lecture Notes in Computer Science, 2016, , 236-251.	1.0	1
158	A Systematic Approach to Programming and Verifying Attribute-Based Communication Systems. Lecture Notes in Computer Science, 2019, , 377-396.	1.0	1
159	Rigorous Engineering of Collective Adaptive Systems Introduction to the 3rd Track Edition. Lecture Notes in Computer Science, 2020, , 161-170.	1.0	1
160	Types in concurrency. Acta Informatica, 2005, 42, 79-81.	0.5	0
161	From Process Calculi to Klaim and Back. Electronic Notes in Theoretical Computer Science, 2006, 162, 159-162.	0.9	0
162	Reputation-Based Composition of Social Web Services. , 2014, , .		0

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163	Improving Availability in Distributed Tuple Spaces Via Sharing Abstractions and Replication Strategies. , 2018, , .		0
164	Automated Replication of Tuple Spaces via Static Analysis. Lecture Notes in Computer Science, 2021, , 18-34.	1.0	0
165	Dimming Relations for the Efficient Analysis of Concurrent Systems via Action Abstraction. Lecture Notes in Computer Science, 2014, , 216-231.	1.0	0
166	Trust-Based Enforcement of Security Policies. Lecture Notes in Computer Science, 2014, , 176-191.	1.0	0
167	Coordination and Access Control of Mobile Agents. Lecture Notes in Computer Science, 1999, , 1-2.	1.0	0
168	Global Protocol Implementations via Attribute-Based Communication. Lecture Notes in Computer Science, 2015, , 219-237.	1.0	0
169	Initial Algebra for a System of Right-Linear Functors. Acta Cybernetica, 2017, 23, 191-201.	0.5	0
170	A Logic-Inspired Approach to Reconfigurable System Modelling. Lecture Notes in Computer Science, 2019, , 181-201.	1.0	0
171	PALM: A Technique for Process ALgebraic Specification Mining. Lecture Notes in Computer Science, 2020, , 397-418.	1.0	0