Rocco De Nicola

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3,454 25 174 54 g-index h-index citations papers 182 1.2 5.42 3,757 L-index ext. citations avg, IF ext. papers

#	Paper	IF	Citations
174	Testing equivalences for processes. <i>Theoretical Computer Science</i> , 1984 , 34, 83-133	1.1	803
173	KLAIM: a kernel language for agents interaction and mobility. <i>IEEE Transactions on Software Engineering</i> , 1998 , 24, 315-330	3.5	338
172	Three logics for branching bisimulation. <i>Journal of the ACM</i> , 1995 , 42, 458-487	2	175
171	Extensional equivalences for transition systems. <i>Acta Informatica</i> , 1987 , 24, 211-237	0.9	169
170	A distributed operational semantics for CCS based on condition/event systems. <i>Acta Informatica</i> , 1988 , 26, 59-91	0.9	125
169	A Formal Approach to Autonomic Systems Programming. <i>ACM Transactions on Autonomous and Adaptive Systems</i> , 2014 , 9, 1-29	1.2	86
168	SCC: A Service Centered Calculus. <i>Lecture Notes in Computer Science</i> , 2006 , 38-57	0.9	71
167	Sessions and Pipelines for Structured Service Programming. <i>Lecture Notes in Computer Science</i> , 2008 , 19-38	0.9	66
166	Types for access control. <i>Theoretical Computer Science</i> , 2000 , 240, 215-254	1.1	64
165	An action-based framework for veryfying logical and behavioural properties of concurrent systems. <i>Computer Networks</i> , 1993 , 25, 761-778		54
164	Model checking mobile stochastic logic. <i>Theoretical Computer Science</i> , 2007 , 382, 42-70	1.1	51
163	Klava: a Java package for distributed and mobile applications. <i>Software - Practice and Experience</i> , 2002 , 32, 1365-1394	2.5	48
162	Partial orderings descriptions and observations of nondeterministic concurrent processes. <i>Lecture Notes in Computer Science</i> , 1989 , 438-466	0.9	43
161	Proof Techniques for Cryptographic Processes. SIAM Journal on Computing, 2001, 31, 947-986	1.1	42
160	The SCEL Language: Design, Implementation, Verification. <i>Lecture Notes in Computer Science</i> , 2015 , 3-7	710.9	41
159	The Klaim Project: Theory and Practice. Lecture Notes in Computer Science, 2003, 88-150	0.9	40
158	Trace and Testing Equivalence on Asynchronous Processes. <i>Information and Computation</i> , 2002 , 172, 139-164	0.8	40

(2000-1990)

157	Back and forth bisimulations. <i>Lecture Notes in Computer Science</i> , 1990 , 152-165	0.9	35
156	SLAC: A Formal Service-Level-Agreement Language for Cloud Computing 2014 ,		32
155	A uniform definition of stochastic process calculi. ACM Computing Surveys, 2013, 46, 1-35	13.4	31
154	A calculus for attribute-based communication 2015 ,		29
153	On the Power of Attribute-Based Communication. Lecture Notes in Computer Science, 2016, 1-18	0.9	29
152	A Language-Based Approach to Autonomic Computing. Lecture Notes in Computer Science, 2013, 25-48	0.9	27
151	Semantic subtyping for the pi-calculus. <i>Theoretical Computer Science</i> , 2008 , 398, 217-242	1.1	27
150	CARMA: Collective Adaptive Resource-sharing Markovian Agents. <i>Electronic Proceedings in Theoretical Computer Science, EPTCS</i> ,194, 16-31		27
149	The role of bot squads in the political propaganda on Twitter. Communications Physics, 2020, 3,	5.4	25
148	On the expressive power of KLAIM-based calculi. <i>Theoretical Computer Science</i> , 2006 , 356, 387-421	1.1	25
147	A uniform framework for modeling nondeterministic, probabilistic, stochastic, or mixed processes and their behavioral equivalences. <i>Information and Computation</i> , 2013 , 225, 29-82	0.8	23
146	Formal modeling and quantitative analysis of KLAIM-based mobile systems 2005,		22
145	A modal logic for mobile agents. ACM Transactions on Computational Logic, 2004, 5, 79-128	0.9	21
144	Smart Contract Negotiation in Cloud Computing 2017 ,		19
143	Scheduling Latency-Sensitive Applications in Edge Computing 2018,		19
142	Programming interactions in collective adaptive systems by relying on attribute-based communication. <i>Science of Computer Programming</i> , 2020 , 192, 102428	1.1	18
141	Rate-Based Transition Systems for Stochastic Process Calculi. <i>Lecture Notes in Computer Science</i> , 2009 , 435-446	0.9	18
140	Programming Access Control: The Klaim Experience. <i>Lecture Notes in Computer Science</i> , 2000 , 48-65	0.9	18

139	A Life Cycle for the Development of Autonomic Systems: The E-mobility Showcase 2013,		17
138	Basic observables for a calculus for global computing. <i>Information and Computation</i> , 2007 , 205, 1491-1	525 8	17
137	Types as Specifications of Access Policies. <i>Lecture Notes in Computer Science</i> , 1999 , 117-146	0.9	17
136	Coordinating mobile agents via blackboards and access rights. <i>Lecture Notes in Computer Science</i> , 1997 , 220-237	0.9	17
135	Addressing Application Latency Requirements through Edge Scheduling. <i>Journal of Grid Computing</i> , 2019 , 17, 677-698	4.2	16
134	A Process Calculus for QoS-Aware Applications. <i>Lecture Notes in Computer Science</i> , 2005 , 33-48	0.9	16
133	Programming of CAS Systems by Relying on Attribute-Based Communication. <i>Lecture Notes in Computer Science</i> , 2016 , 539-553	0.9	16
132	Locality based Linda: Programming with explicit localities. <i>Lecture Notes in Computer Science</i> , 1997 , 712	2-726	15
131	Reasoning (on) Service Component Ensembles in Rewriting Logic. <i>Lecture Notes in Computer Science</i> , 2014 , 188-211	0.9	15
130	Flow of online misinformation during the peak of the COVID-19 pandemic in Italy. <i>EPJ Data Science</i> , 2021 , 10, 34	3.4	14
129	Defining and guaranteeing dynamic service levels in clouds. <i>Future Generation Computer Systems</i> , 2019 , 99, 27-40	7.5	13
128	Relating strong behavioral equivalences for processes with nondeterminism and probabilities. <i>Theoretical Computer Science</i> , 2014 , 546, 63-92	1.1	13
127	Revisiting Trace and Testing Equivalences for Nondeterministic and Probabilistic Processes. <i>Logical Methods in Computer Science</i> , 2014 , 10,		13
126	Dynamic SLAs for Clouds. <i>Lecture Notes in Computer Science</i> , 2016 , 34-49	0.9	13
125	A calculus for collective-adaptive systems and its behavioural theory. <i>Information and Computation</i> , 2019 , 268, 104457	0.8	12
124	From Flow Logic to static type systems for coordination languages. <i>Science of Computer Programming</i> , 2010 , 75, 376-397	1.1	12
123	Translating Strong Mobility into Weak Mobility. Lecture Notes in Computer Science, 2001, 182-197	0.9	12
122	MarCaSPiS: a Markovian Extension of a Calculus for Services. <i>Electronic Notes in Theoretical Computer Science</i> , 2009 , 229, 11-26	0.7	11

121 11 Programming and Verifying Component Ensembles. Lecture Notes in Computer Science, 2014, 69-83 120 0.9 11 Multi-agent systems with virtual stigmergy. Science of Computer Programming, 2020, 187, 102345 119 1.1 11 Revisiting bisimilarity and its modal logic for nondeterministic and probabilistic processes. Acta 118 0.9 10 Informatica, 2015, 52, 61-106 Locality based semantics for process algebras. Acta Informatica, 1997, 34, 291-324 117 0.9 10 X-Klaim and Klava. Electronic Notes in Theoretical Computer Science, 2002, 62, 24-37 116 10 TAPAs: A Tool for the Analysis of Process Algebras. Lecture Notes in Computer Science, 2008, 54-70 115 0.9 10 114 A Formal Basis for Reasoning on Programmable QoS. Lecture Notes in Computer Science, 2003, 436-479 0.9 10 Implementing Session Centered Calculi. Lecture Notes in Computer Science, 2008, 17-32 113 0.9 10 Confining data and processes in global computing applications. Science of Computer Programming, 112 1.1 9 2006, 63, 57-87 An Equational Axiomatization of Bisimulation over Regular Expressions. Journal of Logic and 111 0.4 9 Computation, 2002, 12, 301-320 Linda-based applicative and imperative process algebras. Theoretical Computer Science, 2000, 238, 389-43.7 110 9 Models of Nondeterministic Regular Expressions. Journal of Computer and System Sciences, 1999, 109 1 9 59, 412-449 Formalising Adaptation Patterns for Autonomic Ensembles. Lecture Notes in Computer Science, 108 0.9 9 2014, 100-118 Towards Distributed SLA Management with Smart Contracts and Blockchain 2018, 107 9 106 Mobile Distributed Programming in X-Klaim. Lecture Notes in Computer Science, 2005, 29-68 0.9 9 Rigorous engineering of collective adaptive systems: special section. International Journal on 8 105 1.3 Software Tools for Technology Transfer, 2020, 22, 389-397 AGILE: Software Architecture for Mobility. Lecture Notes in Computer Science, 2003, 1-33 8 104 0.9

103	Software update via mobile agent based programming 2002,		8
102	Self-expression and Dynamic Attribute-Based Ensembles in SCEL. <i>Lecture Notes in Computer Science</i> , 2014 , 147-163	0.9	8
101	Distributed service-level agreement management with smart contracts and blockchain. <i>Concurrency Computation Practice and Experience</i> , 2021 , 33, e5800	1.4	8
100	DReAM: Dynamic Reconfigurable Architecture Modeling. <i>Lecture Notes in Computer Science</i> , 2018 , 13-3	10.9	8
99	A Java Middleware for Guaranteeing Privacy of Distributed Tuple Spaces. <i>Lecture Notes in Computer Science</i> , 2003 , 175-184	0.9	8
98	(mathcal {G}omathcal {A}t): Attribute-Based Interaction in Google Go. <i>Lecture Notes in Computer Science</i> , 2018 , 288-303	0.9	7
97	Toward Formal Models and Languages for Verifiable Multi-Robot Systems. <i>Frontiers in Robotics and AI</i> , 2018 , 5, 94	2.8	7
96	Basic Observables for a Calculus for Global Computing. Lecture Notes in Computer Science, 2005, 1226-1	1238	7
95	A Modal Logic for Klaim. <i>Lecture Notes in Computer Science</i> , 2000 , 339-354	0.9	7
94	On the Expressive Power of Klaim-based Calculi. <i>Electronic Notes in Theoretical Computer Science</i> , 2005 , 128, 117-130	0.7	6
93	Possible worlds process algebras. <i>Lecture Notes in Computer Science</i> , 1998 , 179-193	0.9	6
92	A Distributed Coordination Infrastructure for Attribute-Based Interaction. <i>Lecture Notes in Computer Science</i> , 2018 , 1-20	0.9	6
91	AErlang: Empowering Erlang with attribute-based communication. <i>Science of Computer Programming</i> , 2018 , 168, 71-93	1.1	6
90	Identification of credulous users on Twitter 2019 ,		5
89	CaSPiS: a calculus of sessions, pipelines and services [[Mathematical Structures in Computer Science, 2015, 25, 666-709]	0.5	5
88	Tree Morphisms and Bisimulations. <i>Electronic Notes in Theoretical Computer Science</i> , 1998 , 18, 46-64	0.7	5
87	Multiple-Labelled Transition Systems for nominal calculi and their logics [Mathematical Structures in Computer Science, 2008, 18, 107-143]	0.5	5
86	Sensoria Process Calculi for Service-Oriented Computing. <i>Lecture Notes in Computer Science</i> , 2007 , 30-5	0 0.9	5

85	Semantic subtyping for the /spl pi/-calculus		5	
84	Nondeterministic regular expressions as solutions of equational systems. <i>Theoretical Computer Science</i> , 2003 , 302, 179-189	1.1	5	
83	Algebraic characterizations of trace and decorated trace equivalences over tree-like structures. <i>Theoretical Computer Science</i> , 2001 , 254, 337-361	1.1	5	
82	AErlang: Empowering Erlang with Attribute-Based Communication. <i>Lecture Notes in Computer Science</i> , 2017 , 21-39	0.9	5	
81	Verifying Properties of Systems Relying on Attribute-Based Communication. <i>Lecture Notes in Computer Science</i> , 2017 , 169-190	0.9	5	
80	On a Uniform Framework for the Definition of Stochastic Process Languages. <i>Lecture Notes in Computer Science</i> , 2009 , 9-25	0.9	5	
79	Introduction to R igorous Engineering of Autonomic Ensembles Track Introduction. <i>Lecture Notes in Computer Science</i> , 2014 , 96-98	0.9	5	
78	A Flexible and Modular Framework for Implementing Infrastructures for Global Computing. <i>Lecture Notes in Computer Science</i> , 2005 , 181-193	0.9	5	
77	The DReAM framework for dynamic reconfigurable architecture modelling: theory and applications. <i>International Journal on Software Tools for Technology Transfer</i> , 2020 , 22, 437-455	1.3	4	
76	Global computing in a dynamic network of tuple spaces. <i>Science of Computer Programming</i> , 2007 , 64, 187-204	1.1	4	
75	A Software Framework for Rapid Prototyping of Run-Time Systems for Mobile Calculi. <i>Lecture Notes in Computer Science</i> , 2005 , 179-207	0.9	4	
74	Asynchronous Observations of Processes. <i>Lecture Notes in Computer Science</i> , 1998 , 95-109	0.9	4	
73	Domain-specific queries and Web search personalization: some investigations. <i>Electronic Proceedings in Theoretical Computer Science, EPTCS</i> ,188, 51-58		4	
7 ²	Rigorous Engineering of Collective Adaptive Systems Introduction to the 2nd Track Edition. <i>Lecture Notes in Computer Science</i> , 2018 , 3-12	0.9	4	
71	Core Calculi for Service-Oriented Computing. Lecture Notes in Computer Science, 2011, 153-188	0.9	4	
70	Linear-Time and May-Testing in a Probabilistic Reactive Setting. <i>Lecture Notes in Computer Science</i> , 2011 , 29-43	0.9	4	
69	On Integrating Social and Sensor Networks for Emergency Management. <i>Lecture Notes in Computer Science</i> , 2015 , 145-160	0.9	4	
68	A Finite Axiomatization of Nondeterministic Regular Expressions. <i>RAIRO - Theoretical Informatics and Applications</i> , 1999 , 33, 447-465	0.5	4	

67	AErlang at Work. Lecture Notes in Computer Science, 2017, 485-497	0.9	4
66	Revisiting Trace and Testing Equivalences for Nondeterministic and Probabilistic Processes. <i>Lecture Notes in Computer Science</i> , 2012 , 195-209	0.9	4
65	Evaluating the efficiency of Linda implementations. <i>Concurrency Computation Practice and Experience</i> , 2018 , 30, e4381	1.4	4
64	On the efficacy of old features for the detection of new bots. <i>Information Processing and Management</i> , 2021 , 58, 102685	6.3	4
63	Global Computing in a Dynamic Network of Tuple Spaces. Lecture Notes in Computer Science, 2005, 157	-17.3	4
62	MoMo: A Modal Logic for Reasoning About Mobility. Lecture Notes in Computer Science, 2005, 95-119	0.9	4
61	Graded Modalities and Resource Bisimulation. Lecture Notes in Computer Science, 1999, 381-393	0.9	4
60	A Theory of MaylTesting for Asynchronous Languages. <i>Lecture Notes in Computer Science</i> , 1999 , 165-17	9 0.9	4
59	A Formal Approach to the Engineering of Domain-Specific Distributed Systems. <i>Lecture Notes in Computer Science</i> , 2018 , 110-141	0.9	3
58	Pattern Matching over a Dynamic Network of Tuple Spaces. <i>Lecture Notes in Computer Science</i> , 2005 , 1-14	0.9	3
57	Proving the Correctness of Optimising Destructive and Non-destructive Reads over Tuple Spaces. <i>Lecture Notes in Computer Science</i> , 2000 , 66-80	0.9	3
56	From Flow Logic to Static Type Systems for Coordination Languages. <i>Lecture Notes in Computer Science</i> , 2008 , 100-116	0.9	3
55	ABEL - A Domain Specific Framework for Programming with Attribute-Based Communication. <i>Lecture Notes in Computer Science</i> , 2019 , 111-128	0.9	3
54	Verifying AbC Specifications via Emulation. <i>Lecture Notes in Computer Science</i> , 2020 , 261-279	0.9	3
53	Do You Really Follow Them? Automatic Detection of Credulous Twitter Users. <i>Lecture Notes in Computer Science</i> , 2019 , 402-410	0.9	3
52	Tuple Spaces Implementations and Their Efficiency. Lecture Notes in Computer Science, 2016, 51-66	0.9	3
51	Uniform Labeled Transition Systems for Nondeterministic, Probabilistic, and Stochastic Processes. <i>Lecture Notes in Computer Science</i> , 2010 , 35-56	0.9	3
50	SoSL: A Service-Oriented Stochastic Logic. <i>Lecture Notes in Computer Science</i> , 2011 , 447-466	0.9	3

49	Network-Aware Evaluation Environment for Reputation Systems. <i>IFIP Advances in Information and Communication Technology</i> , 2013 , 231-238	0.5	3
48	Multiparty Testing Preorders. <i>Lecture Notes in Computer Science</i> , 2016 , 16-31	0.9	3
47	Provably correct implementation of the AbC calculus. Science of Computer Programming, 2021, 202, 102	25:67	3
46	Framework, Tools and Good Practices for Cybersecurity Curricula. <i>IEEE Access</i> , 2021 , 9, 94723-94747	3.5	3
45	An Observational Semantics for Linda. Workshops in Computing, 1995, 129-143		3
44	Verification of Distributed Systems via Sequential Emulation. <i>ACM Transactions on Software Engineering and Methodology</i> , 2022 , 31, 1-41	3.3	3
43	A Homage to Martin Wirsing. Lecture Notes in Computer Science, 2015, 1-12	0.9	2
42	Tree-functors, determinacy and bisimulations. <i>Mathematical Structures in Computer Science</i> , 2010 , 20, 319-358	0.5	2
41	Implementing a Distributed Mobile Calculus Using the IMC Framework. <i>Electronic Notes in Theoretical Computer Science</i> , 2007 , 181, 63-79	0.7	2
40	Multi Labelled Transition Systems: A Semantic Framework for Nominal Calculi. <i>Electronic Notes in Theoretical Computer Science</i> , 2007 , 169, 133-146	0.7	2
39	Towards a Logic for Performance and Mobility. <i>Electronic Notes in Theoretical Computer Science</i> , 2006 , 153, 161-175	0.7	2
38	Formulae Meet Programs Over the Net: A Framework for Correct Network Aware Programming. <i>Automated Software Engineering</i> , 2004 , 11, 245-288	1.5	2
37	6G Networks Physical Layer Security Using RGB Visible Light Communications. <i>IEEE Access</i> , 2022 , 10, 5482-5496	3.5	2
36	Verification of Privacy-Enhanced Collaborations 2020,		2
35	Replica-Based High-Performance Tuple Space Computing. <i>Lecture Notes in Computer Science</i> , 2015 , 3-18	30.9	2
34	Provably Correct Implementations of Services. <i>Lecture Notes in Computer Science</i> , 2009 , 69-86	0.9	2
33	Orchestrating Tuple-Based Languages. Lecture Notes in Computer Science, 2012, 160-178	0.9	2
32	The Spectrum of Strong Behavioral Equivalences for Nondeterministic and Probabilistic Processes. <i>Electronic Proceedings in Theoretical Computer Science, EPTCS</i> ,117, 81-96		2

31	The Meaning of Adaptation: Mastering the Unforeseen?. Lecture Notes in Computer Science, 2018, 109-	117 9	2
30	Formalizing Properties of Mobile Agent Systems. Lecture Notes in Computer Science, 2002, 72-87	0.9	2
29	Exploring the relation between festivals and host cities on Twitter: a study on the impacts of Lucca Comics & Games. <i>Information Technology and Tourism</i> , 2020 , 22, 625-648	4.8	1
28	Integration of heterogeneous information sources for an effective emergency management. International Journal of Emergency Management, 2016 , 12, 70	0.5	1
27	Towards automatic translation of social network policies into controlled natural language 2018,		1
26	Specifying and analysing reputation systems with a coordination language 2013,		1
25	Modelling global computations with KLAIM. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008 , 366, 3737-45	3	1
24	Divergence in testing and readiness semantics. <i>Theoretical Computer Science</i> , 2001 , 266, 237-248	1.1	1
23	Rigorous Engineering of Collective Adaptive Systems Introduction to the 3rd Track Edition. <i>Lecture Notes in Computer Science</i> , 2020 , 161-170	0.9	1
22	Uniform Labeled Transition Systems for Nondeterministic, Probabilistic, and Stochastic Process Calculi. <i>Electronic Proceedings in Theoretical Computer Science, EPTCS</i> ,60, 66-75		1
21	Ugo Montanari in a Nutshell. <i>Lecture Notes in Computer Science</i> , 2008 , 1-8	0.9	1
20	A Systematic Approach to Programming and Verifying Attribute-Based Communication Systems. Lecture Notes in Computer Science, 2019 , 377-396	0.9	1
19	Group-by-Group Probabilistic Bisimilarities and Their Logical Characterizations. <i>Lecture Notes in Computer Science</i> , 2014 , 315-330	0.9	1
18	Twitlang(er): Interactions Modeling Language (and Interpreter) for Twitter. <i>Lecture Notes in Computer Science</i> , 2015 , 327-343	0.9	1
17	A Formal Approach to Autonomic Systems Programming: The SCEL Language. <i>Lecture Notes in Computer Science</i> , 2015 , 24-28	0.9	1
16	Replicating Data for Better Performances in X10. <i>Lecture Notes in Computer Science</i> , 2016 , 236-251	0.9	1
15	A formal approach to the engineering of domain-specific distributed systems. <i>Journal of Logical and Algebraic Methods in Programming</i> , 2020 , 111, 100511	1	1
14	2020,		1

LIST OF PUBLICATIONS

13	A behavioural analysis of credulous Twitter users. Online Social Networks and Media, 2021, 23, 100133	3.3	1
12	Transparency in Keyword Faceted Search: An Investigation on Google Shopping. <i>Communications in Computer and Information Science</i> , 2019 , 29-43	0.3	0
11	Quantitative Analysis of Distributed Systems in Stoklaim: A Tutorial 2015 , 27-55		
10	From Process Calculi to Klaim and Back. <i>Electronic Notes in Theoretical Computer Science</i> , 2006 , 162, 159	9-1 <u>6</u> 2	
9	Automated Replication of Tuple Spaces via Static Analysis. Lecture Notes in Computer Science, 2021, 18-	- 34 .9	
8	Languages and Process Calculi for Network Aware Programming Ishort Summary <i>Lecture Notes in Computer Science</i> , 2005 , 49-52	0.9	
7	A Logic-Inspired Approach to Reconfigurable System Modelling. <i>Lecture Notes in Computer Science</i> , 2019 , 181-201	0.9	
6	PALM: A Technique for Process ALgebraic Specification Mining. <i>Lecture Notes in Computer Science</i> , 2020 , 397-418	0.9	
5	Coordination and Access Control of Mobile Agents. Lecture Notes in Computer Science, 1999, 1-2	0.9	
4	Global Protocol Implementations via Attribute-Based Communication. <i>Lecture Notes in Computer Science</i> , 2015 , 219-237	0.9	
3	Dimming Relations for the Efficient Analysis of Concurrent Systems via Action Abstraction. <i>Lecture Notes in Computer Science</i> , 2014 , 216-231	0.9	
2	Trust-Based Enforcement of Security Policies. <i>Lecture Notes in Computer Science</i> , 2014 , 176-191	0.9	
1	Multi-agent Systems with Virtual Stigmergy. <i>Lecture Notes in Computer Science</i> . 2018 . 351-366	0.0	