Rocco De Nicola

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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

#	Paper	IF	Citations
174	6G Networks Physical Layer Security Using RGB Visible Light Communications. *IEEE Access*, **2022**, 10, 5482-5496	3.5	2
173	Verification of Distributed Systems via Sequential Emulation. *ACM Transactions on Software Engineering and Methodology*, **2022**, 31, 1-41	3.3	3
172	Automated Replication of Tuple Spaces via Static Analysis. *Lecture Notes in Computer Science*, **2021**, 18-34	0.9	
171	A behavioural analysis of credulous Twitter users. *Online Social Networks and Media*, **2021**, 23, 100133	3.3	1
170	Distributed service-level agreement management with smart contracts and blockchain. *Concurrency Computation Practice and Experience*, **2021**, 33, e5800	1.4	8
169	Provably correct implementation of the AbC calculus. *Science of Computer Programming*, **2021**, 202, 102567	1.1	3
168	Flow of online misinformation during the peak of the COVID-19 pandemic in Italy. *EPJ Data Science*, **2021**, 10, 34	3.4	14
167	On the efficacy of old features for the detection of new bots. *Information Processing and Management*, **2021**, 58, 102685	6.3	4
166	Framework, Tools and Good Practices for Cybersecurity Curricula. *IEEE Access*, **2021**, 9, 94723-94747	3.5	3
165	Rigorous engineering of collective adaptive systems: special section. *International Journal on Software Tools for Technology Transfer*, **2020**, 22, 389-397	1.3	8
164	The role of bot squads in the political propaganda on Twitter. *Communications Physics*, **2020**, 3,	5.4	25
163	The DReAM framework for dynamic reconfigurable architecture modelling: theory and applications. *International Journal on Software Tools for Technology Transfer*, **2020**, 22, 437-455	1.3	4
162	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	4.8	1
161	Programming interactions in collective adaptive systems by relying on attribute-based communication. *Science of Computer Programming*, **2020**, 192, 102428	1.1	18
160	Verification of Privacy-Enhanced Collaborations **2020**,		2
159	Rigorous Engineering of Collective Adaptive Systems Introduction to the 3rd Track Edition. *Lecture Notes in Computer Science*, **2020**, 161-170	0.9	1
158	PALM: A Technique for Process ALgebraic Specification Mining. *Lecture Notes in Computer Science*, **2020**, 397-418	0.9	

157	Verifying AbC Specifications via Emulation. *Lecture Notes in Computer Science*, **2020**, 261-279	0.9	3
156	Multi-agent systems with virtual stigmergy. *Science of Computer Programming*, **2020**, 187, 102345	1.1	11
155	A formal approach to the engineering of domain-specific distributed systems. *Journal of Logical and Algebraic Methods in Programming*, **2020**, 111, 100511	1	1
154	**2020**,		1
153	A calculus for collective-adaptive systems and its behavioural theory. *Information and Computation*, **2019**, 268, 104457	0.8	12
152	Identification of credulous users on Twitter **2019**,		5
151	Defining and guaranteeing dynamic service levels in clouds. *Future Generation Computer Systems*, **2019**, 99, 27-40	7.5	13
150	Addressing Application Latency Requirements through Edge Scheduling. *Journal of Grid Computing*, **2019**, 17, 677-698	4.2	16
149	ABEL - A Domain Specific Framework for Programming with Attribute-Based Communication. *Lecture Notes in Computer Science*, **2019**, 111-128	0.9	3
148	A Logic-Inspired Approach to Reconfigurable System Modelling. *Lecture Notes in Computer Science*, **2019**, 181-201	0.9	
147	Transparency in Keyword Faceted Search: An Investigation on Google Shopping. *Communications in Computer and Information Science*, **2019**, 29-43	0.3	0
146	A Systematic Approach to Programming and Verifying Attribute-Based Communication Systems. *Lecture Notes in Computer Science*, **2019**, 377-396	0.9	1
145	Do You Really Follow Them? Automatic Detection of Credulous Twitter Users. *Lecture Notes in Computer Science*, **2019**, 402-410	0.9	3
144	Towards automatic translation of social network policies into controlled natural language **2018**,		1
143	A Formal Approach to the Engineering of Domain-Specific Distributed Systems. *Lecture Notes in Computer Science*, **2018**, 110-141	0.9	3
142	Scheduling Latency-Sensitive Applications in Edge Computing **2018**,		19
141	Rigorous Engineering of Collective Adaptive Systems Introduction to the 2nd Track Edition. *Lecture Notes in Computer Science*, **2018**, 3-12	0.9	4
140	(mathcal {G}omathcal {A}t): Attribute-Based Interaction in Google Go. *Lecture Notes in Computer Science*, **2018**, 288-303	0.9	7

139	A Distributed Coordination Infrastructure for Attribute-Based Interaction. *Lecture Notes in Computer Science*, **2018**, 1-20	0.9	6
138	Towards Distributed SLA Management with Smart Contracts and Blockchain **2018**,		9
137	Multi-agent Systems with Virtual Stigmergy. *Lecture Notes in Computer Science*, **2018**, 351-366	0.9	
136	Toward Formal Models and Languages for Verifiable Multi-Robot Systems. *Frontiers in Robotics and AI*, **2018**, 5, 94	2.8	7
135	DReAM: Dynamic Reconfigurable Architecture Modeling. *Lecture Notes in Computer Science*, **2018**, 13-31	0.9	8
134	The Meaning of Adaptation: Mastering the Unforeseen?. *Lecture Notes in Computer Science*, **2018**, 109-117	0.9	2
133	AErlang: Empowering Erlang with attribute-based communication. *Science of Computer Programming*, **2018**, 168, 71-93	1.1	6
132	Evaluating the efficiency of Linda implementations. *Concurrency Computation Practice and Experience*, **2018**, 30, e4381	1.4	4
131	Smart Contract Negotiation in Cloud Computing **2017**,		19
130	AErlang: Empowering Erlang with Attribute-Based Communication. *Lecture Notes in Computer Science*, **2017**, 21-39	0.9	5
129	Verifying Properties of Systems Relying on Attribute-Based Communication. *Lecture Notes in Computer Science*, **2017**, 169-190	0.9	5
128	AErlang at Work. *Lecture Notes in Computer Science*, **2017**, 485-497	0.9	4
127	Integration of heterogeneous information sources for an effective emergency management. *International Journal of Emergency Management*, **2016**, 12, 70	0.5	1
126	Tuple Spaces Implementations and Their Efficiency. *Lecture Notes in Computer Science*, **2016**, 51-66	0.9	3
125	On the Power of Attribute-Based Communication. *Lecture Notes in Computer Science*, **2016**, 1-18	0.9	29
124	Programming of CAS Systems by Relying on Attribute-Based Communication. *Lecture Notes in Computer Science*, **2016**, 539-553	0.9	16
123	Replicating Data for Better Performances in X10. *Lecture Notes in Computer Science*, **2016**, 236-251	0.9	1
122	Multiparty Testing Preorders. *Lecture Notes in Computer Science*, **2016**, 16-31	0.9	3

121	Dynamic SLAs for Clouds. *Lecture Notes in Computer Science*, **2016**, 34-49	0.9	13
120	Revisiting bisimilarity and its modal logic for nondeterministic and probabilistic processes. *Acta Informatica*, **2015**, 52, 61-106	0.9	10
119	CaSPiS: a calculus of sessions, pipelines and services *Mathematical Structures in Computer Science*, **2015**, 25, 666-709	0.5	5
118	A calculus for attribute-based communication **2015**,		29
117	Quantitative Analysis of Distributed Systems in Stoklaim: A Tutorial **2015**, 27-55		
116	A Homage to Martin Wirsing. *Lecture Notes in Computer Science*, **2015**, 1-12	0.9	2
115	The SCEL Language: Design, Implementation, Verification. *Lecture Notes in Computer Science*, **2015**, 3-71	0.9	41
114	Replica-Based High-Performance Tuple Space Computing. *Lecture Notes in Computer Science*, **2015**, 3-18	0.9	2
113	On Integrating Social and Sensor Networks for Emergency Management. *Lecture Notes in Computer Science*, **2015**, 145-160	0.9	4
112	Twitlang(er): Interactions Modeling Language (and Interpreter) for Twitter. *Lecture Notes in Computer Science*, **2015**, 327-343	0.9	1
111	Global Protocol Implementations via Attribute-Based Communication. *Lecture Notes in Computer Science*, **2015**, 219-237	0.9	
110	A Formal Approach to Autonomic Systems Programming: The SCEL Language. *Lecture Notes in Computer Science*, **2015**, 24-28	0.9	1
109	Relating strong behavioral equivalences for processes with nondeterminism and probabilities. *Theoretical Computer Science*, **2014**, 546, 63-92	1.1	13
108	A Formal Approach to Autonomic Systems Programming. *ACM Transactions on Autonomous and Adaptive Systems*, **2014**, 9, 1-29	1.2	86
107	SLAC: A Formal Service-Level-Agreement Language for Cloud Computing **2014**,		32
106	Revisiting Trace and Testing Equivalences for Nondeterministic and Probabilistic Processes. *Logical Methods in Computer Science*, **2014**, 10,		13
105	Group-by-Group Probabilistic Bisimilarities and Their Logical Characterizations. *Lecture Notes in Computer Science*, **2014**, 315-330	0.9	1
104	Formalising Adaptation Patterns for Autonomic Ensembles. *Lecture Notes in Computer Science*, **2014**, 100-118	0.9	9

103	Reasoning (on) Service Component Ensembles in Rewriting Logic. *Lecture Notes in Computer Science* , **2014**, 188-211	0.9	15
102	Programming and Verifying Component Ensembles. *Lecture Notes in Computer Science*, **2014**, 69-83	0.9	11
101	Self-expression and Dynamic Attribute-Based Ensembles in SCEL. *Lecture Notes in Computer Science* , **2014**, 147-163	0.9	8
100	Introduction to Rigorous Engineering of Autonomic Ensembles Track Introduction. *Lecture Notes in Computer Science*, **2014**, 96-98	0.9	5
99	Dimming Relations for the Efficient Analysis of Concurrent Systems via Action Abstraction. *Lecture Notes in Computer Science*, **2014**, 216-231	0.9	
98	Trust-Based Enforcement of Security Policies. *Lecture Notes in Computer Science*, **2014**, 176-191	0.9	
97	A Language-Based Approach to Autonomic Computing. *Lecture Notes in Computer Science*, **2013**, 25-48	0.9	27
96	A Life Cycle for the Development of Autonomic Systems: The E-mobility Showcase **2013**,		17
95	A uniform framework for modeling nondeterministic, probabilistic, stochastic, or mixed processes and their behavioral equivalences. *Information and Computation*, **2013**, 225, 29-82	0.8	23
94	Specifying and analysing reputation systems with a coordination language **2013**,		1
93	A uniform definition of stochastic process calculi. *ACM Computing Surveys*, **2013**, 46, 1-35	13.4	31
92	Network-Aware Evaluation Environment for Reputation Systems. *IFIP Advances in Information and Communication Technology*, **2013**, 231-238	0.5	3
91	Orchestrating Tuple-Based Languages. *Lecture Notes in Computer Science*, **2012**, 160-178	0.9	2
90	Revisiting Trace and Testing Equivalences for Nondeterministic and Probabilistic Processes. *Lecture Notes in Computer Science*, **2012**, 195-209	0.9	4
89	SoSL: A Service-Oriented Stochastic Logic. *Lecture Notes in Computer Science*, **2011**, 447-466	0.9	3
88	Core Calculi for Service-Oriented Computing. *Lecture Notes in Computer Science*, **2011**, 153-188	0.9	4
87	Linear-Time and May-Testing in a Probabilistic Reactive Setting. *Lecture Notes in Computer Science*, **2011**, 29-43	0.9	4
86	Tree-functors, determinacy and bisimulations. *Mathematical Structures in Computer Science*, **2010**, 20, 319-358	0.5	2

85	From Flow Logic to static type systems for coordination languages. *Science of Computer Programming*, **2010**, 75, 376-397	1.1	12
84	Uniform Labeled Transition Systems for Nondeterministic, Probabilistic, and Stochastic Processes. *Lecture Notes in Computer Science*, **2010**, 35-56	0.9	3
83	MarCaSPiS: a Markovian Extension of a Calculus for Services. *Electronic Notes in Theoretical Computer Science*, **2009**, 229, 11-26	0.7	11
82	Provably Correct Implementations of Services. *Lecture Notes in Computer Science*, **2009**, 69-86	0.9	2
81	Rate-Based Transition Systems for Stochastic Process Calculi. *Lecture Notes in Computer Science*, **2009**, 435-446	0.9	18
80	On a Uniform Framework for the Definition of Stochastic Process Languages. *Lecture Notes in Computer Science*, **2009**, 9-25	0.9	5
79	Multiple-Labelled Transition Systems for nominal calculi and their logics *Mathematical Structures in Computer Science*, **2008**, 18, 107-143	0.5	5
78	Modelling global computations with KLAIM. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2008**, 366, 3737-45	3	1
77	Semantic subtyping for the pi-calculus. *Theoretical Computer Science*, **2008**, 398, 217-242	1.1	27
76	TAPAs: A Tool for the Analysis of Process Algebras. *Lecture Notes in Computer Science*, **2008**, 54-70	0.9	10
75	Ugo Montanari in a Nutshell. *Lecture Notes in Computer Science*, **2008**, 1-8	0.9	1
74	From Flow Logic to Static Type Systems for Coordination Languages. *Lecture Notes in Computer Science*, **2008**, 100-116	0.9	3
73	Implementing Session Centered Calculi. *Lecture Notes in Computer Science*, **2008**, 17-32	0.9	10
72	Sessions and Pipelines for Structured Service Programming. *Lecture Notes in Computer Science*, **2008**, 19-38	0.9	66
71	Model checking mobile stochastic logic. *Theoretical Computer Science*, **2007**, 382, 42-70	1.1	51
70	Implementing a Distributed Mobile Calculus Using the IMC Framework. *Electronic Notes in Theoretical Computer Science*, **2007**, 181, 63-79	0.7	2
69	Multi Labelled Transition Systems: A Semantic Framework for Nominal Calculi. *Electronic Notes in Theoretical Computer Science*, **2007**, 169, 133-146	0.7	2
68	Global computing in a dynamic network of tuple spaces. *Science of Computer Programming*, **2007**, 64, 187-204	1.1	4

67	Basic observables for a calculus for global computing. *Information and Computation*, **2007**, 205, 1491-1528	0.8	17
66	Sensoria Process Calculi for Service-Oriented Computing. *Lecture Notes in Computer Science*, **2007**, 30-50	0.9	5
65	Towards a Logic for Performance and Mobility. *Electronic Notes in Theoretical Computer Science*, **2006**, 153, 161-175	0.7	2
64	From Process Calculi to Klaim and Back. *Electronic Notes in Theoretical Computer Science*, **2006**, 162, 159-162	0.7	
63	Confining data and processes in global computing applications. *Science of Computer Programming*, **2006**, 63, 57-87	1.1	9
62	On the expressive power of KLAIM-based calculi. *Theoretical Computer Science*, **2006**, 356, 387-421	1.1	25
61	SCC: A Service Centered Calculus. *Lecture Notes in Computer Science*, **2006**, 38-57	0.9	71
60	A Process Calculus for QoS-Aware Applications. *Lecture Notes in Computer Science*, **2005**, 33-48	0.9	16
59	Pattern Matching over a Dynamic Network of Tuple Spaces. *Lecture Notes in Computer Science*, **2005**, 1-14	0.9	3
58	On the Expressive Power of Klaim-based Calculi. *Electronic Notes in Theoretical Computer Science*, **2005**, 128, 117-130	0.7	6
57	A Software Framework for Rapid Prototyping of Run-Time Systems for Mobile Calculi. *Lecture Notes in Computer Science*, **2005**, 179-207	0.9	4
56	Formal modeling and quantitative analysis of KLAIM-based mobile systems **2005**,		22
55	Languages and Process Calculi for Network Aware Programming [Short Summary -. *Lecture Notes in Computer Science*, **2005**, 49-52	0.9	
54	Global Computing in a Dynamic Network of Tuple Spaces. *Lecture Notes in Computer Science*, **2005**, 157-172	0.9	4
53	Mobile Distributed Programming in X-Klaim. *Lecture Notes in Computer Science*, **2005**, 29-68	0.9	9
52	A Flexible and Modular Framework for Implementing Infrastructures for Global Computing. *Lecture Notes in Computer Science*, **2005**, 181-193	0.9	5
51	Basic Observables for a Calculus for Global Computing. *Lecture Notes in Computer Science*, **2005**, 1226-1238	0.8	7
50	MoMo: A Modal Logic for Reasoning About Mobility. *Lecture Notes in Computer Science*, **2005**, 95-119	0.9	4

49	A modal logic for mobile agents. *ACM Transactions on Computational Logic*, **2004**, 5, 79-128	0.9	21
48	Formulae Meet Programs Over the Net: A Framework for Correct Network Aware Programming. *Automated Software Engineering*, **2004**, 11, 245-288	1.5	2
47	The Klaim Project: Theory and Practice. *Lecture Notes in Computer Science*, **2003**, 88-150	0.9	40
46	Nondeterministic regular expressions as solutions of equational systems. *Theoretical Computer Science*, **2003**, 302, 179-189	1.1	5
45	AGILE: Software Architecture for Mobility. *Lecture Notes in Computer Science*, **2003**, 1-33	0.9	8
44	A Formal Basis for Reasoning on Programmable QoS. *Lecture Notes in Computer Science*, **2003**, 436-479	0.9	10
43	A Java Middleware for Guaranteeing Privacy of Distributed Tuple Spaces. *Lecture Notes in Computer Science*, **2003**, 175-184	0.9	8
42	Klava: a Java package for distributed and mobile applications. *Software - Practice and Experience*, **2002**, 32, 1365-1394	2.5	48
41	Trace and Testing Equivalence on Asynchronous Processes. *Information and Computation*, **2002**, 172, 139-164	0.8	40
40	Software update via mobile agent based programming **2002**,		8
39	An Equational Axiomatization of Bisimulation over Regular Expressions. *Journal of Logic and Computation*, **2002**, 12, 301-320	0.4	9
38	X-Klaim and Klava. *Electronic Notes in Theoretical Computer Science*, **2002**, 62, 24-37	0.7	10
37	Formalizing Properties of Mobile Agent Systems. *Lecture Notes in Computer Science*, **2002**, 72-87	0.9	2
36	Divergence in testing and readiness semantics. *Theoretical Computer Science*, **2001**, 266, 237-248	1.1	1
35	Algebraic characterizations of trace and decorated trace equivalences over tree-like structures. *Theoretical Computer Science*, **2001**, 254, 337-361	1.1	5
34	Proof Techniques for Cryptographic Processes. *SIAM Journal on Computing*, **2001**, 31, 947-986	1.1	42
33	Translating Strong Mobility into Weak Mobility. *Lecture Notes in Computer Science*, **2001**, 182-197	0.9	12
32	Types for access control. *Theoretical Computer Science*, **2000**, 240, 215-254	1.1	64

31	Linda-based applicative and imperative process algebras. *Theoretical Computer Science*, **2000**, 238, 389-437	1.1	9
30	Proving the Correctness of Optimising Destructive and Non-destructive Reads over Tuple Spaces. *Lecture Notes in Computer Science*, **2000**, 66-80	0.9	3
29	Programming Access Control: The Klaim Experience. *Lecture Notes in Computer Science*, **2000**, 48-65	0.9	18
28	A Modal Logic for Klaim. *Lecture Notes in Computer Science*, **2000**, 339-354	0.9	7
27	Models of Nondeterministic Regular Expressions. *Journal of Computer and System Sciences*, **1999**, 59, 412-449	1	9
26	A Finite Axiomatization of Nondeterministic Regular Expressions. *RAIRO - Theoretical Informatics and Applications*, **1999**, 33, 447-465	0.5	4
25	Coordination and Access Control of Mobile Agents. *Lecture Notes in Computer Science*, **1999**, 1-2	0.9	
24	Graded Modalities and Resource Bisimulation. *Lecture Notes in Computer Science*, **1999**, 381-393	0.9	4
23	Types as Specifications of Access Policies. *Lecture Notes in Computer Science*, **1999**, 117-146	0.9	17
22	A Theory of May Testing for Asynchronous Languages. *Lecture Notes in Computer Science*, **1999**, 165-179	0.9	4
21	Tree Morphisms and Bisimulations. *Electronic Notes in Theoretical Computer Science*, **1998**, 18, 46-64	0.7	5
20	KLAIM: a kernel language for agents interaction and mobility. *IEEE Transactions on Software Engineering*, **1998**, 24, 315-330	3.5	338
19	Asynchronous Observations of Processes. *Lecture Notes in Computer Science*, **1998**, 95-109	0.9	4
18	Possible worlds process algebras. *Lecture Notes in Computer Science*, **1998**, 179-193	0.9	6
17	Locality based Linda: Programming with explicit localities. *Lecture Notes in Computer Science*, **1997**, 712-726	0.9	15
16	Locality based semantics for process algebras. *Acta Informatica*, **1997**, 34, 291-324	0.9	10
15	Coordinating mobile agents via blackboards and access rights. *Lecture Notes in Computer Science*, **1997**, 220-237	0.9	17
14	Three logics for branching bisimulation. *Journal of the ACM*, **1995**, 42, 458-487	2	175

13	An Observational Semantics for Linda. *Workshops in Computing*, **1995**, 129-143		3
12	An action-based framework for veryfying logical and behavioural properties of concurrent systems. *Computer Networks*, **1993**, 25, 761-778		54
11	Back and forth bisimulations. *Lecture Notes in Computer Science*, **1990**, 152-165	0.9	35
10	Partial orderings descriptions and observations of nondeterministic concurrent processes. *Lecture Notes in Computer Science*, **1989**, 438-466	0.9	43
9	A distributed operational semantics for CCS based on condition/event systems. *Acta Informatica*, **1988**, 26, 59-91	0.9	125
8	Extensional equivalences for transition systems. *Acta Informatica*, **1987**, 24, 211-237	0.9	169
7	Testing equivalences for processes. *Theoretical Computer Science*, **1984**, 34, 83-133	1.1	803
6	Semantic subtyping for the /spl pi/-calculus		5
5			11
4	Domain-specific queries and Web search personalization: some investigations. *Electronic Proceedings in Theoretical Computer Science, EPTCS*,188, 51-58		4
3	CARMA: Collective Adaptive Resource-sharing Markovian Agents. *Electronic Proceedings in Theoretical Computer Science, EPTCS*,194, 16-31		27
2	Uniform Labeled Transition Systems for Nondeterministic, Probabilistic, and Stochastic Process Calculi. *Electronic Proceedings in Theoretical Computer Science, EPTCS*,60, 66-75		1
1	The Spectrum of Strong Behavioral Equivalences for Nondeterministic and Probabilistic Processes. *Electronic Proceedings in Theoretical Computer Science, EPTCS*,117, 81-96		2