

# Roberto Bruni

## List of Publications by Year in descending order

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Version: 2024-02-01

113  
papers

1,471  
citations

393982

19  
h-index

454577

30  
g-index

121  
all docs

121  
docs citations

121  
times ranked

430  
citing authors

#	ARTICLE	IF	CITATIONS
1	Limits and difficulties in the design of under-approximation abstract domains. Lecture Notes in Computer Science, 2022, , 21-39.	1.0	4
2	A process algebraic approach to reaction systems. Theoretical Computer Science, 2021, 881, 62-82.	0.5	3
3	SOS Rules for Equivalences of Reaction Systems. Lecture Notes in Computer Science, 2021, , 3-21.	1.0	0
4	A logical and graphical framework for reaction systems. Theoretical Computer Science, 2021, 875, 1-27.	0.5	6
5	Exploiting Modularity of SOS Semantics to Define Quantitative Extensions of Reaction Systems. Lecture Notes in Computer Science, 2021, , 15-32.	1.0	3
6	Bayesian network semantics for Petri nets. Theoretical Computer Science, 2020, 807, 95-113.	0.5	4
7	Abstract extensionality: on the properties of incomplete abstract interpretations. , 2020, 4, 1-28.		17
8	The link-calculus for open multiparty interactions. Information and Computation, 2020, 275, 104587.	0.5	4
9	Algebras for Tree Decomposable Graphs. Lecture Notes in Computer Science, 2020, , 203-220.	1.0	0
10	A formal approach to open multiparty interactions. Theoretical Computer Science, 2019, 763, 38-65.	0.5	10
11	Enhancing Reaction Systems: A Process Algebraic Approach. Lecture Notes in Computer Science, 2019, , 68-85.	1.0	3
12	A Coalgebraic Approach to Unification Semantics of Logic Programming. Lecture Notes in Computer Science, 2019, , 223-240.	1.0	0
13	Code Obfuscation Against Abstract Model Checking Attacks. Lecture Notes in Computer Science, 2018, , 94-115.	1.0	3
14	Code obfuscation against abstraction refinement attacks. Formal Aspects of Computing, 2018, 30, 685-711.	1.4	2
15	A Normal Form for Stateful Connectors. Lecture Notes in Computer Science, 2015, , 205-227.	1.0	0
16	Reconciling White-Box and Black-Box Perspectives on Behavioral Self-adaptation. Lecture Notes in Computer Science, 2015, , 163-184.	1.0	7
17	Revisiting causality, coalgebraically. Acta Informatica, 2015, 52, 5-33.	0.5	7
18	CaSPiS: a calculus of sessions, pipelines and services. Mathematical Structures in Computer Science, 2015, 25, 666-709.	0.5	8

#	ARTICLE	IF	CITATIONS
19	Reconfigurable and Software-Defined Networks of Connectors and Components. Lecture Notes in Computer Science, 2015, , 73-106.	1.0	5
20	cJoin: Join with communicating transactions. Mathematical Structures in Computer Science, 2015, 25, 566-618.	0.5	2
21	A coalgebraic semantics for causality in Petri nets. Journal of Logical and Algebraic Methods in Programming, 2015, 84, 853-883.	0.4	2
22	Constraint design rewriting. Science of Computer Programming, 2015, 97, 23-30.	1.5	0
23	Modelling and analyzing adaptive self-assembly strategies with Maude. Science of Computer Programming, 2015, 99, 75-94.	1.5	19
24	Causal Trees, Finally. Lecture Notes in Computer Science, 2015, , 27-43.	1.0	0
25	A White Box Perspective on Behavioural Adaptation. Lecture Notes in Computer Science, 2015, , 552-581.	1.0	0
26	On Hierarchical Graphs: Reconciling Bigraphs, Gs-monoidal Theories and Gs-graphs. Fundamenta Informaticae, 2014, 134, 287-317.	0.3	12
27	A sound and complete theory of graph transformations for service programming with sessions and pipelines. Science of Computer Programming, 2014, 94, 255-288.	1.5	0
28	Behaviour, Interaction and Dynamics. Lecture Notes in Computer Science, 2014, , 382-401.	1.0	7
29	From Hierarchical BIP to Petri Calculus. Lecture Notes in Computer Science, 2014, , 54-68.	1.0	0
30	Open Multiparty Interaction. Lecture Notes in Computer Science, 2013, , 1-23.	1.0	5
31	Adaptable Transition Systems. Lecture Notes in Computer Science, 2013, , 95-110.	1.0	8
32	LTS Semantics for Compensation-Based Processes. Lecture Notes in Computer Science, 2013, , 112-128.	1.0	0
33	A Survey on Basic Connectors and Buffers. Lecture Notes in Computer Science, 2013, , 49-68.	1.0	1
34	A New Strategy for Distributed Compensations with Interruption in Long-Running Transactions. Lecture Notes in Computer Science, 2012, , 42-60.	1.0	6
35	A Conceptual Framework for Adaptation. Lecture Notes in Computer Science, 2012, , 240-254.	1.0	56
36	Connector Algebras, Petri Nets, and BIP. Lecture Notes in Computer Science, 2012, , 19-38.	1.0	14

#	ARTICLE	IF	CITATIONS
37	Applying Process Analysis to the Italian eGovernment Enterprise Architecture. Lecture Notes in Computer Science, 2012, , 111-127.	1.0	4
38	Modelling and Analyzing Adaptive Self-assembly Strategies with Maude. Lecture Notes in Computer Science, 2012, , 118-138.	1.0	16
39	First-Order Dynamic Logic for Compensable Processes. Lecture Notes in Computer Science, 2012, , 104-121.	1.0	2
40	Evaluating the Performance of Model Transformation Styles in Maude. Lecture Notes in Computer Science, 2012, , 79-96.	1.0	2
41	Towards Interaction Reliability in Concurrent Applications. Scientific Annals of Computer Science, 2012, 22, 1-4.	0.4	18
42	A Connector Algebra for P/T Nets Interactions. Lecture Notes in Computer Science, 2011, , 312-326.	1.0	22
43	Static Analysis Techniques for Session-Oriented Calculi. Lecture Notes in Computer Science, 2011, , 214-231.	1.0	2
44	A Formal Support to Business and Architectural Design for Service-Oriented Systems. Lecture Notes in Computer Science, 2011, , 133-152.	1.0	5
45	Hierarchical Models for Service-Oriented Systems. Lecture Notes in Computer Science, 2011, , 349-368.	1.0	0
46	Formal Techniques for Distributed Systems. Lecture Notes in Computer Science, 2011, , .	1.0	0
47	An Algebra of Hierarchical Graphs. Lecture Notes in Computer Science, 2010, , 205-221.	1.0	7
48	Exploiting the Hierarchical Structure of Rule-Based Specifications for Decision Planning. Lecture Notes in Computer Science, 2010, , 2-16.	1.0	1
49	On GS-Monoidal Theories for Graphs with Nesting. Lecture Notes in Computer Science, 2010, , 59-86.	1.0	3
50	A Graph Syntax for Processes and Services. Lecture Notes in Computer Science, 2010, , 46-60.	1.0	7
51	Static Detection of Logic Flaws in Service-Oriented Applications. Lecture Notes in Computer Science, 2009, , 70-87.	1.0	6
52	Hierarchical Design Rewriting with Maude. Electronic Notes in Theoretical Computer Science, 2009, 238, 45-62.	0.9	13
53	On Symbolic Semantics for Name-decorated Contexts. Electronic Notes in Theoretical Computer Science, 2009, 229, 37-58.	0.9	0
54	A Service-Oriented UML Profile with Formal Support. Lecture Notes in Computer Science, 2009, , 455-469.	1.0	6

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55	Provably Correct Implementations of Services. Lecture Notes in Computer Science, 2009, , 69-86.	1.0	3
56	Calculi for Service-Oriented Computing. Lecture Notes in Computer Science, 2009, , 1-41.	1.0	12
57	Tiles for Reo. Lecture Notes in Computer Science, 2009, , 37-55.	1.0	25
58	Modelling Dynamic Software Architectures using Typed Graph Grammars. Electronic Notes in Theoretical Computer Science, 2008, 213, 39-53.	0.9	30
59	Parametric synchronizations in mobile nominal calculi. Theoretical Computer Science, 2008, 402, 102-119.	0.5	5
60	Multiparty Sessions in SOC. , 2008, , 67-82.		25
61	Graph-Based Design and Analysis of Dynamic Software Architectures. Lecture Notes in Computer Science, 2008, , 37-56.	1.0	19
62	Sessions and Pipelines for Structured Service Programming. Lecture Notes in Computer Science, 2008, , 19-38.	1.0	79
63	Types and Deadlock Freedom in a Calculus of Services, Sessions and Pipelines. Lecture Notes in Computer Science, 2008, , 100-115.	1.0	12
64	Models of Computation: A Tribute to Ugo Montanari's Vision. Lecture Notes in Computer Science, 2008, , 503-509.	1.0	0
65	A semantic framework for open processes. Theoretical Computer Science, 2007, 389, 446-483.	0.5	15
66	Prototype Platforms for Distributed Agreements. Electronic Notes in Theoretical Computer Science, 2007, 180, 21-40.	0.9	2
67	Service Oriented Architectural Design. , 2007, , 186-203.		15
68	Semantic foundations for generalized rewrite theories. Theoretical Computer Science, 2006, 360, 386-414.	0.5	125
69	A basic algebra of stateless connectors. Theoretical Computer Science, 2006, 366, 98-120.	0.5	66
70	Translating Orc Features into Petri Nets and the Join Calculus. Lecture Notes in Computer Science, 2006, , 123-137.	1.0	8
71	Non-sequential Behaviour of Dynamic Nets. Lecture Notes in Computer Science, 2006, , 105-124.	1.0	1
72	Dynamic Graph Transformation Systems. Lecture Notes in Computer Science, 2006, , 230-244.	1.0	1

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73	PRISMA: A Mobile Calculus with Parametric Synchronization. , 2006, , 132-149.		5
74	Observational congruences for dynamically reconfigurable tile systems. Theoretical Computer Science, 2005, 335, 331-372.	0.5	8
75	Symbolic Equivalences for Open Systems. Lecture Notes in Computer Science, 2005, , 1-17.	1.0	2
76	Comparing Two Approaches to Compensable Flow Composition. Lecture Notes in Computer Science, 2005, , 383-397.	1.0	45
77	Complete Axioms for Stateless Connectors. Lecture Notes in Computer Science, 2005, , 98-113.	1.0	4
78	From Theory to Practice in Transactional Composition of Web Services. Lecture Notes in Computer Science, 2005, , 272-286.	1.0	22
79	Theoretical foundations for compensations in flow composition languages. , 2005, , .		92
80	Theoretical foundations for compensations in flow composition languages. ACM SIGPLAN Notices, 2005, 40, 209-220.	0.2	19
81	Nested Commits For Mobile Calculi: Extending Join. , 2004, , 563-576.		15
82	Concurrent models for Linda with transactions. Mathematical Structures in Computer Science, 2004, 14, 421-468.	0.5	7
83	Flat Committed Join in Join. Electronic Notes in Theoretical Computer Science, 2004, 104, 39-59.	0.9	5
84	Tiling Transactions in Rewriting Logic. Electronic Notes in Theoretical Computer Science, 2004, 71, 90-109.	0.9	3
85	Modeling Fresh Names in the $\lambda$ -calculus Using Abstractions. Electronic Notes in Theoretical Computer Science, 2004, 106, 25-41.	0.9	0
86	Extending the Zero-Safe Approach to Coloured, Reconfigurable and Dynamic Nets. Lecture Notes in Computer Science, 2004, , 291-327.	1.0	5
87	Some algebraic laws for spans (and their connections with multirelations) <sup>1</sup> <sup>1</sup> Research partly supported by the EC TMR Network getgrats and by the Italian MURST Project tosca.. Electronic Notes in Theoretical Computer Science, 2003, 44, 175-193.	0.9	8
88	Generalized Rewrite Theories. Lecture Notes in Computer Science, 2003, , 252-266.	1.0	35
89	Pre-nets, Read Arcs and Unfolding: A Functorial Presentation. Lecture Notes in Computer Science, 2003, , 145-164.	1.0	6
90	Algebraic Theories for Contextual Pre-nets. Lecture Notes in Computer Science, 2003, , 256-270.	1.0	1

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91	Symmetric monoidal and cartesian double categories as a semantic framework for tile logic. <i>Mathematical Structures in Computer Science</i> , 2002, 12, .	0.5	22
92	Normal forms for algebras of connections. <i>Theoretical Computer Science</i> , 2002, 286, 247-292.	0.5	32
93	Dynamic connectors for concurrency. <i>Theoretical Computer Science</i> , 2002, 281, 131-176.	0.5	16
94	Comparing Higher-Order Encodings in Logical Frameworks and Tile Logic <sup>1</sup> <sup>1</sup> Research supported by the MURST Project TOSCA.. <i>Electronic Notes in Theoretical Computer Science</i> , 2002, 62, 136-156.	0.9	0
95	Orchestrating Transactions in Join Calculus*. <i>Lecture Notes in Computer Science</i> , 2002, , 321-337.	1.0	39
96	Bisimulation by Unification*. <i>Lecture Notes in Computer Science</i> , 2002, , 254-270.	1.0	10
97	An interactive semantics of logic programming. <i>Theory and Practice of Logic Programming</i> , 2001, 1, 647-690.	1.1	24
98	Functorial Models for Petri Nets. <i>Information and Computation</i> , 2001, 170, 207-236.	0.5	24
99	Zero-safe net models for transactions in Linda <sup>1</sup> <sup>1</sup> Research supported by the TMR Network GETGRATS and by the MURST Project TOSCA.. <i>Electronic Notes in Theoretical Computer Science</i> , 2001, 54, 106-116.	0.9	5
100	Transactions and Zero-Safe Nets. <i>Lecture Notes in Computer Science</i> , 2001, , 380-426.	1.0	16
101	Two Algebraic Process Semantics for Contextual Nets. <i>Lecture Notes in Computer Science</i> , 2001, , 427-456.	1.0	3
102	Zero-Safe Nets: Comparing the Collective and Individual Token Approaches. <i>Information and Computation</i> , 2000, 156, 46-89.	0.5	49
103	Bisimilarity Congruences for Open Terms and Term Graphs via Tile Logic. <i>Lecture Notes in Computer Science</i> , 2000, , 259-274.	1.0	20
104	Open Ended Systems, Dynamic Bisimulation and Tile Logic. <i>Lecture Notes in Computer Science</i> , 2000, , 440-456.	1.0	8
105	Executing Transactions in Zero-Safe Nets. <i>Lecture Notes in Computer Science</i> , 2000, , 83-102.	1.0	12
106	Algebraic Models for Contextual Nets. <i>Lecture Notes in Computer Science</i> , 2000, , 175-186.	1.0	14
107	Functorial semantics for Petri nets under the individual token philosophy. <i>Electronic Notes in Theoretical Computer Science</i> , 1999, 29, 21.	0.9	13
108	Normal Forms for Partitions and Relations. <i>Lecture Notes in Computer Science</i> , 1999, , 31-48.	1.0	3

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109	Executable Tile Specifications for Process Calculi. Lecture Notes in Computer Science, 1999, , 60-76.	1.0	13
110	Internal Strategies in a Rewriting Implementation of Tile Systems. Electronic Notes in Theoretical Computer Science, 1998, 15, 263-284.	0.9	11
111	A Logic for Modular Descriptions of Asynchronous and Synchronized Concurrent Systems. Electronic Notes in Theoretical Computer Science, 1998, 15, 161-172.	0.9	1
112	Zero-safe nets: The individual token approach. Lecture Notes in Computer Science, 1998, , 122-140.	1.0	8
113	Zero-Safe Nets, or Transition Synchronization Made Simple. Electronic Notes in Theoretical Computer Science, 1997, 7, 55-74.	0.9	29