

Roberto Bruni

List of Publications by Year in descending order

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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	Semantic foundations for generalized rewrite theories. Theoretical Computer Science, 2006, 360, 386-414.	0.5	125
2	Theoretical foundations for compensations in flow composition languages. , 2005, , .		92
3	Sessions and Pipelines for Structured Service Programming. Lecture Notes in Computer Science, 2008, , 19-38.	1.0	79
4	A basic algebra of stateless connectors. Theoretical Computer Science, 2006, 366, 98-120.	0.5	66
5	A Conceptual Framework for Adaptation. Lecture Notes in Computer Science, 2012, , 240-254.	1.0	56
6	Zero-Safe Nets: Comparing the Collective and Individual Token Approaches. Information and Computation, 2000, 156, 46-89.	0.5	49
7	Comparing Two Approaches to Compensable Flow Composition. Lecture Notes in Computer Science, 2005, , 383-397.	1.0	45
8	Orchestrating Transactions in Join Calculus*. Lecture Notes in Computer Science, 2002, , 321-337.	1.0	39
9	Generalized Rewrite Theories. Lecture Notes in Computer Science, 2003, , 252-266.	1.0	35
10	Normal forms for algebras of connections. Theoretical Computer Science, 2002, 286, 247-292.	0.5	32
11	Modelling Dynamic Software Architectures using Typed Graph Grammars. Electronic Notes in Theoretical Computer Science, 2008, 213, 39-53.	0.9	30
12	Zero-Safe Nets, or Transition Synchronization Made Simple. Electronic Notes in Theoretical Computer Science, 1997, 7, 55-74.	0.9	29
13	Multiparty Sessions in SOC. , 2008, , 67-82.		25
14	Tiles for Reo. Lecture Notes in Computer Science, 2009, , 37-55.	1.0	25
15	An interactive semantics of logic programming. Theory and Practice of Logic Programming, 2001, 1, 647-690.	1.1	24
16	Functorial Models for Petri Nets. Information and Computation, 2001, 170, 207-236.	0.5	24
17	Symmetric monoidal and cartesian double categories as a semantic framework for tile logic. Mathematical Structures in Computer Science, 2002, 12, .	0.5	22
18	From Theory to Practice in Transactional Composition of Web Services. Lecture Notes in Computer Science, 2005, , 272-286.	1.0	22

#	ARTICLE	IF	CITATIONS
19	A Connector Algebra for P/T Nets Interactions. Lecture Notes in Computer Science, 2011, , 312-326.	1.0	22
20	Bisimilarity Congruences for Open Terms and Term Graphs via Tile Logic. Lecture Notes in Computer Science, 2000, , 259-274.	1.0	20
21	Modelling and analyzing adaptive self-assembly strategies with Maude. Science of Computer Programming, 2015, 99, 75-94.	1.5	19
22	Graph-Based Design and Analysis of Dynamic Software Architectures. Lecture Notes in Computer Science, 2008, , 37-56.	1.0	19
23	Theoretical foundations for compensations in flow composition languages. ACM SIGPLAN Notices, 2005, 40, 209-220.	0.2	19
24	Towards Interaction Reliability in Concurrent Applications. Scientific Annals of Computer Science, 2012, 22, 1-4.	0.4	18
25	Abstract extensionality: on the properties of incomplete abstract interpretations. , 2020, 4, 1-28.		17
26	Dynamic connectors for concurrency. Theoretical Computer Science, 2002, 281, 131-176.	0.5	16
27	Transactions and Zero-Safe Nets. Lecture Notes in Computer Science, 2001, , 380-426.	1.0	16
28	Modelling and Analyzing Adaptive Self-assembly Strategies with Maude. Lecture Notes in Computer Science, 2012, , 118-138.	1.0	16
29	Nested Commits For Mobile Calculi: Extending Join. , 2004, , 563-576.		15
30	A semantic framework for open processes. Theoretical Computer Science, 2007, 389, 446-483.	0.5	15
31	Service Oriented Architectural Design. , 2007, , 186-203.		15
32	Algebraic Models for Contextual Nets. Lecture Notes in Computer Science, 2000, , 175-186.	1.0	14
33	Connector Algebras, Petri Nets, and BIP. Lecture Notes in Computer Science, 2012, , 19-38.	1.0	14
34	Functorial semantics for Petri nets under the individual token philosophy. Electronic Notes in Theoretical Computer Science, 1999, 29, 21.	0.9	13
35	Hierarchical Design Rewriting with Maude. Electronic Notes in Theoretical Computer Science, 2009, 238, 45-62.	0.9	13
36	Executable Tile Specifications for Process Calculi. Lecture Notes in Computer Science, 1999, , 60-76.	1.0	13

#	ARTICLE	IF	CITATIONS
37	On Hierarchical Graphs: Reconciling Bigraphs, Gs-monoidal Theories and Gs-graphs. <i>Fundamenta Informaticae</i> , 2014, 134, 287-317.	0.3	12
38	Executing Transactions in Zero-Safe Nets. <i>Lecture Notes in Computer Science</i> , 2000, , 83-102.	1.0	12
39	Types and Deadlock Freedom in a Calculus of Services, Sessions and Pipelines. <i>Lecture Notes in Computer Science</i> , 2008, , 100-115.	1.0	12
40	Calculi for Service-Oriented Computing. <i>Lecture Notes in Computer Science</i> , 2009, , 1-41.	1.0	12
41	Internal Strategies in a Rewriting Implementation of Tile Systems. <i>Electronic Notes in Theoretical Computer Science</i> , 1998, 15, 263-284.	0.9	11
42	A formal approach to open multiparty interactions. <i>Theoretical Computer Science</i> , 2019, 763, 38-65.	0.5	10
43	Bisimulation by Unification*. <i>Lecture Notes in Computer Science</i> , 2002, , 254-270.	1.0	10
44	Some algebraic laws for spans (and their connections with multirelations) ¹ ¹ Research partly supported by the EC TMR Network getgrats and by the Italian MURST Project toscas. <i>Electronic Notes in Theoretical Computer Science</i> , 2003, 44, 175-193.	0.9	8
45	Observational congruences for dynamically reconfigurable tile systems. <i>Theoretical Computer Science</i> , 2005, 335, 331-372.	0.5	8
46	CaSPiS: a calculus of sessions, pipelines and services. <i>Mathematical Structures in Computer Science</i> , 2015, 25, 666-709.	0.5	8
47	Translating Orc Features into Petri Nets and the Join Calculus. <i>Lecture Notes in Computer Science</i> , 2006, , 123-137.	1.0	8
48	Open Ended Systems, Dynamic Bisimulation and Tile Logic. <i>Lecture Notes in Computer Science</i> , 2000, , 440-456.	1.0	8
49	Zero-safe nets: The individual token approach. <i>Lecture Notes in Computer Science</i> , 1998, , 122-140.	1.0	8
50	Adaptable Transition Systems. <i>Lecture Notes in Computer Science</i> , 2013, , 95-110.	1.0	8
51	Concurrent models for Linda with transactions. <i>Mathematical Structures in Computer Science</i> , 2004, 14, 421-468.	0.5	7
52	Reconciling White-Box and Black-Box Perspectives on Behavioral Self-adaptation. <i>Lecture Notes in Computer Science</i> , 2015, , 163-184.	1.0	7
53	Revisiting causality, coalgebraically. <i>Acta Informatica</i> , 2015, 52, 5-33.	0.5	7
54	An Algebra of Hierarchical Graphs. <i>Lecture Notes in Computer Science</i> , 2010, , 205-221.	1.0	7

#	ARTICLE	IF	CITATIONS
55	Behaviour, Interaction and Dynamics. Lecture Notes in Computer Science, 2014, , 382-401.	1.0	7
56	A Graph Syntax for Processes and Services. Lecture Notes in Computer Science, 2010, , 46-60.	1.0	7
57	Static Detection of Logic Flaws in Service-Oriented Applications. Lecture Notes in Computer Science, 2009, , 70-87.	1.0	6
58	A Service-Oriented UML Profile with Formal Support. Lecture Notes in Computer Science, 2009, , 455-469.	1.0	6
59	A logical and graphical framework for reaction systems. Theoretical Computer Science, 2021, 875, 1-27.	0.5	6
60	Pre-nets, Read Arcs and Unfolding: A Functorial Presentation. Lecture Notes in Computer Science, 2003, , 145-164.	1.0	6
61	A New Strategy for Distributed Compensations with Interruption in Long-Running Transactions. Lecture Notes in Computer Science, 2012, , 42-60.	1.0	6
62	Zero-safe net models for transactions in Linda1 1Research supported by the TMR Network GETGRATS and by the MURST Project TOSCA.. Electronic Notes in Theoretical Computer Science, 2001, 54, 106-116.	0.9	5
63	Flat Committed Join in Join. Electronic Notes in Theoretical Computer Science, 2004, 104, 39-59.	0.9	5
64	Parametric synchronizations in mobile nominal calculi. Theoretical Computer Science, 2008, 402, 102-119.	0.5	5
65	Reconfigurable and Software-Defined Networks of Connectors and Components. Lecture Notes in Computer Science, 2015, , 73-106.	1.0	5
66	Extending the Zero-Safe Approach to Coloured, Reconfigurable and Dynamic Nets. Lecture Notes in Computer Science, 2004, , 291-327.	1.0	5
67	Open Multiparty Interaction. Lecture Notes in Computer Science, 2013, , 1-23.	1.0	5
68	A Formal Support to Business and Architectural Design for Service-Oriented Systems. Lecture Notes in Computer Science, 2011, , 133-152.	1.0	5
69	PRISMA: A Mobile Calculus with Parametric Synchronization. , 2006, , 132-149.		5
70	Bayesian network semantics for Petri nets. Theoretical Computer Science, 2020, 807, 95-113.	0.5	4
71	The link-calculus for open multiparty interactions. Information and Computation, 2020, 275, 104587.	0.5	4
72	Complete Axioms for Stateless Connectors. Lecture Notes in Computer Science, 2005, , 98-113.	1.0	4

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73	Applying Process Analysis to the Italian eGovernment Enterprise Architecture. Lecture Notes in Computer Science, 2012, , 111-127.	1.0	4
74	Limits and difficulties in the design of under-approximation abstract domains. Lecture Notes in Computer Science, 2022, , 21-39.	1.0	4
75	Tiling Transactions in Rewriting Logic. Electronic Notes in Theoretical Computer Science, 2004, 71, 90-109.	0.9	3
76	Code Obfuscation Against Abstract Model Checking Attacks. Lecture Notes in Computer Science, 2018, , 94-115.	1.0	3
77	A process algebraic approach to reaction systems. Theoretical Computer Science, 2021, 881, 62-82.	0.5	3
78	Two Algebraic Process Semantics for Contextual Nets. Lecture Notes in Computer Science, 2001, , 427-456.	1.0	3
79	Normal Forms for Partitions and Relations. Lecture Notes in Computer Science, 1999, , 31-48.	1.0	3
80	Enhancing Reaction Systems: A Process Algebraic Approach. Lecture Notes in Computer Science, 2019, , 68-85.	1.0	3
81	Provably Correct Implementations of Services. Lecture Notes in Computer Science, 2009, , 69-86.	1.0	3
82	On GS-Monoidal Theories for Graphs with Nesting. Lecture Notes in Computer Science, 2010, , 59-86.	1.0	3
83	Exploiting Modularity of SOS Semantics to Define Quantitative Extensions of Reaction Systems. Lecture Notes in Computer Science, 2021, , 15-32.	1.0	3
84	Symbolic Equivalences for Open Systems. Lecture Notes in Computer Science, 2005, , 1-17.	1.0	2
85	Prototype Platforms for Distributed Agreements. Electronic Notes in Theoretical Computer Science, 2007, 180, 21-40.	0.9	2
86	cJoin: Join with communicating transactions. Mathematical Structures in Computer Science, 2015, 25, 566-618.	0.5	2
87	A coalgebraic semantics for causality in Petri nets. Journal of Logical and Algebraic Methods in Programming, 2015, 84, 853-883.	0.4	2
88	Code obfuscation against abstraction refinement attacks. Formal Aspects of Computing, 2018, 30, 685-711.	1.4	2
89	Static Analysis Techniques for Session-Oriented Calculi. Lecture Notes in Computer Science, 2011, , 214-231.	1.0	2
90	First-Order Dynamic Logic for Compensable Processes. Lecture Notes in Computer Science, 2012, , 104-121.	1.0	2

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91	Evaluating the Performance of Model Transformation Styles in Maude. Lecture Notes in Computer Science, 2012, , 79-96.	1.0	2
92	A Logic for Modular Descriptions of Asynchronous and Synchronized Concurrent Systems. Electronic Notes in Theoretical Computer Science, 1998, 15, 161-172.	0.9	1
93	Algebraic Theories for Contextual Pre-nets. Lecture Notes in Computer Science, 2003, , 256-270.	1.0	1
94	Non-sequential Behaviour of Dynamic Nets. Lecture Notes in Computer Science, 2006, , 105-124.	1.0	1
95	Dynamic Graph Transformation Systems. Lecture Notes in Computer Science, 2006, , 230-244.	1.0	1
96	Exploiting the Hierarchical Structure of Rule-Based Specifications for Decision Planning. Lecture Notes in Computer Science, 2010, , 2-16.	1.0	1
97	A Survey on Basic Connectors and Buffers. Lecture Notes in Computer Science, 2013, , 49-68.	1.0	1
98	Comparing Higher-Order Encodings in Logical Frameworks and Tile Logic1 1Research supported by the MURST Project TOSCA.. Electronic Notes in Theoretical Computer Science, 2002, 62, 136-156.	0.9	0
99	Modeling Fresh Names in the λ -calculus Using Abstractions. Electronic Notes in Theoretical Computer Science, 2004, 106, 25-41.	0.9	0
100	On Symbolic Semantics for Name-decorated Contexts. Electronic Notes in Theoretical Computer Science, 2009, 229, 37-58.	0.9	0
101	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
102	A Normal Form for Stateful Connectors. Lecture Notes in Computer Science, 2015, , 205-227.	1.0	0
103	Constraint design rewriting. Science of Computer Programming, 2015, 97, 23-30.	1.5	0
104	SOS Rules for Equivalences of Reaction Systems. Lecture Notes in Computer Science, 2021, , 3-21.	1.0	0
105	Models of Computation: A Tribute to Ugo Montanari's Vision. Lecture Notes in Computer Science, 2008, , 503-509.	1.0	0
106	Hierarchical Models for Service-Oriented Systems. Lecture Notes in Computer Science, 2011, , 349-368.	1.0	0
107	Formal Techniques for Distributed Systems. Lecture Notes in Computer Science, 2011, , .	1.0	0
108	LTS Semantics for Compensation-Based Processes. Lecture Notes in Computer Science, 2013, , 112-128.	1.0	0

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109	From Hierarchical BIP to Petri Calculus. Lecture Notes in Computer Science, 2014, , 54-68.	1.0	0
110	Causal Trees, Finally. Lecture Notes in Computer Science, 2015, , 27-43.	1.0	0
111	A White Box Perspective on Behavioural Adaptation. Lecture Notes in Computer Science, 2015, , 552-581.	1.0	0
112	A Coalgebraic Approach to Unification Semantics of Logic Programming. Lecture Notes in Computer Science, 2019, , 223-240.	1.0	0
113	Algebras for Tree Decomposable Graphs. Lecture Notes in Computer Science, 2020, , 203-220.	1.0	0