Ugo Montanari

List of Publications by Year
in descending order

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138	4,252	185998	128067
papers	citations	28 h-index	60 g-index

145	145	145	965
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Networks of constraints: Fundamental properties and applications to picture processing. Information Sciences, 1974, 7, 95-132.	4.0	897
2	Semiring-based constraint satisfaction and optimization. Journal of the ACM, 1997, 44, 201-236.	1.8	523
3	Petri nets are monoids. Information and Computation, 1990, 88, 105-155.	0.5	263
4	Contextual nets. Acta Informatica, 1995, 32, 545-596.	0.5	157
5	A distributed operational semantics for CCS based on condition/event systems. Acta Informatica, 1988, 26, 59-91.	0.5	139
6	Contextual Petri Nets, Asymmetric Event Structures, and Processes. Information and Computation, 2001, 171, 1-49.	0.5	102
7	CC-Pi: A Constraint-Based Language for Specifying Service Level Agreements. Lecture Notes in Computer Science, 2007, , 18-32.	1.0	90
8	A model for distributed systems based on graph rewriting. Journal of the ACM, 1987, 34, 411-449.	1.8	81
9	Constraint relaxation may be perfect. Artificial Intelligence, 1991, 48, 143-170.	3.9	67
10	A basic algebra of stateless connectors. Theoretical Computer Science, 2006, 366, 98-120.	0.5	66
11	Semiring-based constraint logic programming. ACM Transactions on Programming Languages and Systems, 2001, 23, 1-29.	1.7	63
12	Soft concurrent constraint programming. ACM Transactions on Computational Logic, 2006, 7, 563-589.	0.7	52
13	Zero-Safe Nets: Comparing the Collective and Individual Token Approaches. Information and Computation, 2000, 156, 46-89.	0.5	49
14	Dynamic Congruence vs. Progressing Bisimulation for CCS1. Fundamenta Informaticae, 1992, 16, 171-199.	0.3	49
15	An algebraic semantics for structured transition systems and its application to logic programs. Theoretical Computer Science, 1992, 103, 51-106.	0.5	47
16	Axiomatizing the algebra of net computations and processes. Acta Informatica, 1996, 33, 641-667.	0.5	44
17	On the semantics of place/transition Petri nets. Mathematical Structures in Computer Science, 1997, 7, 359-397.	0.5	44
18	Process versus unfolding semantics for Place/Transition Petri nets. Theoretical Computer Science, 1996, 153, 171-210.	0.5	43

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19	About permutation algebras, (pre)sheaves and named sets. Higher-Order and Symbolic Computation, 2006, 19, 283-304.	0.3	42
20	Axiomatizing the algebra of net computations and processes. Acta Informatica, 1996, 33, 641-667.	0.5	41
21	Mapping tile logic into rewriting logic. Lecture Notes in Computer Science, 1998, , 62-91.	1.0	33
22	Normal forms for algebras of connections. Theoretical Computer Science, 2002, 286, 247-292.	0.5	32
23	Synchronised Hyperedge Replacement as a Model for Service Oriented Computing. Lecture Notes in Computer Science, 2006, , 22-43.	1.0	32
24	Tile Formats for Located and Mobile Systems. Information and Computation, 2000, 156, 173-235.	0.5	30
25	Structured coalgebras and minimal HD-automata for the <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co	0.5	30
26	Zero-Safe Nets, or Transition Synchronization Made Simple. Electronic Notes in Theoretical Computer Science, 1997, 7, 55-74.	0.9	29
27	Quantitative Î¼-calculus and CTL defined over constraint semirings. Theoretical Computer Science, 2005, 346, 135-160.	0.5	29
28	Modeling Software Architectures and Styles with Graph Grammars and Constraint Solving. IFIP Advances in Information and Communication Technology, 1999, , 127-143.	0.5	29
29	Coalgebraic minimization of HD-automata for the <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://w Theoretical	0.5	28
30	Concurrent Semantics for the Ï€-calculus1 1Work supported in part by Esprit Basic Research project CONFER and working group COMPUGRAPH II and by Progetto Speciale CNR â€œSpecifica ad Alto Livelloe Verifica Formale di Sistemi Digitaliâ€•. Electronic Notes in Theoretical Computer Science, 1995, 1, 411-429.	0.9	27
31	Compositional SOS and beyond: a coalgebraic view of open systems. Theoretical Computer Science, 2002, 280, 163-192.	0.5	27
32	Symmetries, local names and dynamic (de)-allocation of names. Information and Computation, 2010, 208, 1349-1367.	0.5	26
33	An Introduction to History Dependent Automata. Electronic Notes in Theoretical Computer Science, 1998, 10, 170-188.	0.9	25
34	Tiles for Reo. Lecture Notes in Computer Science, 2009, , 37-55.	1.0	25
35	An interactive semantics of logic programming. Theory and Practice of Logic Programming, 2001, 1, 647-690.	1.1	24
36	Unfolding semantics of graph transformation. Information and Computation, 2007, 205, 733-782.	0.5	24

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37	Reconfiguration of Software Architecture Styles with Name Mobility. Lecture Notes in Computer Science, 2000, , 148-163.	1.0	24
38	Axiomatizing permutation equivalence. Mathematical Structures in Computer Science, 1996, 6, 219-249.	0.5	23
39	Comparing logics for rewriting: rewriting logic, action calculi and tile logic. Theoretical Computer Science, 2002, 285, 319-358.	0.5	23
40	Symmetric monoidal and cartesian double categories as a semantic framework for tile logic. Mathematical Structures in Computer Science, 2002, 12, .	0.5	22
41	Unicast and multicast QoS routing with soft-constraint logic programming. ACM Transactions on Computational Logic, 2010, 12, 1-48.	0.7	22
42	A Connector Algebra for P/T Nets Interactions. Lecture Notes in Computer Science, 2011, , 312-326.	1.0	22
43	From SOS Specifications to Structured Coalgebras: How to Make Bisimulation a Congruence. Electronic Notes in Theoretical Computer Science, 1999, 19, 118-141.	0.9	21
44	Soft Constraint Logic Programming and Generalized Shortest Path Problems. Journal of Heuristics, 2002, 8, 25-41.	1.1	21
45	Contextual occurrence nets and concurrent constraint programming. Lecture Notes in Computer Science, 1994, , 280-295.	1.0	21
46	Bisimilarity Congruences for Open Terms and Term Graphs via Tile Logic. Lecture Notes in Computer Science, 2000, , 259-274.	1.0	20
47	Towards the unification of models for concurrency. Lecture Notes in Computer Science, 1990, , 162-176.	1.0	20
48	Minimizing Transition Systems for Name Passing Calculi: A Co-algebraic Formulation. Lecture Notes in Computer Science, 2002, , 129-143.	1.0	19
49	A Formal Basis for Reasoning on Programmable QoS. Lecture Notes in Computer Science, 2003, , 436-479.	1.0	19
50	An abstract machine for concurrent modular systems: CHARM. Theoretical Computer Science, 1994, 122, 165-200.	0.5	18
51	Graph Rewriting, Constraint Solving and Tiles for Coordinating Distributed Systems. Applied Categorical Structures, 1999, 7, 333-370.	0.2	18
52	Minimal transition systems for history-preserving bisimulation. Lecture Notes in Computer Science, 1997, , 413-425.	1.0	16
53	Dynamic connectors for concurrency. Theoretical Computer Science, 2002, 281, 131-176.	0.5	16
54	Transactions and Zero-Safe Nets. Lecture Notes in Computer Science, 2001, , 380-426.	1.0	16

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55	Tiles, Rewriting Rules and CCS. Electronic Notes in Theoretical Computer Science, 1996, 4, 1-19.	0.9	15
56	Nested Commits For Mobile Calculi: Extending Join. , 2004, , 563-576.		15
57	Reactive systems, (semi-)saturated semantics and coalgebras on presheaves. Theoretical Computer Science, 2009, 410, 4044-4066.	0.5	15
58	Connector Algebras, Petri Nets, and BIP. Lecture Notes in Computer Science, 2012, , 19-38.	1.0	14
59	Modelling Multicast QoS Routing by using Best-Tree Search in And-or Graphs and Soft Constraint Logic Programming. Electronic Notes in Theoretical Computer Science, 2007, 190, 111-127.	0.9	13
60	Hierarchical Design Rewriting with Maude. Electronic Notes in Theoretical Computer Science, 2009, 238, 45-62.	0.9	13
61	Families of Symmetries as Efficient Models of Resource Binding. Electronic Notes in Theoretical Computer Science, 2010, 264, 63-81.	0.9	13
62	Observational Equivalence for Synchronized Graph Rewriting with Mobility. Lecture Notes in Computer Science, 2001, , 145-164.	1.0	13
63	A First Order Coalgebraic Model of Ï€-Calculus Early Observational Equivalence*. Lecture Notes in Computer Science, 2002, , 449-465.	1.0	13
64	D-Fusion: A Distinctive Fusion Calculus. Lecture Notes in Computer Science, 2004, , 296-310.	1.0	13
65	Executable Tile Specifications for Process Calculi. Lecture Notes in Computer Science, 1999, , 60-76.	1.0	13
66	Graph rewriting for a partial ordering semantics of concurrent constraint programming. Theoretical Computer Science, 1993, 109, 225-256.	0.5	12
67	Quantitative Î¼-calculus and CTL Based on Constraint Semirings. Electronic Notes in Theoretical Computer Science, 2005, 112, 37-59.	0.9	12
68	On Hierarchical Graphs: Reconciling Bigraphs, Gs-monoidal Theories and Gs-graphs. Fundamenta Informaticae, 2014, 134, 287-317.	0.3	12
69	Executing Transactions in Zero-Safe Nets. Lecture Notes in Computer Science, 2000, , 83-102.	1.0	12
70	A survey of constraint-based programming paradigms. Computer Science Review, 2008, 2, 137-141.	10.2	11
71	Finite State Verification for the Asynchronous Ï€-Calculus. Lecture Notes in Computer Science, 1999, , 255-269.	1.0	11
72	A Name Abstraction Functor for Named Sets. Electronic Notes in Theoretical Computer Science, 2008, 203, 49-70.	0.9	10

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73	A network-conscious Ï€-calculus and its coalgebraic semantics. Theoretical Computer Science, 2014, 546, 188-224.	0.5	10
74	Efficient minimization up to location equivalence. Lecture Notes in Computer Science, 1996, , 265-279.	1.0	10
75	Prosumers as Aggregators in the DEZENT Context of Regenerative Power Production. , 2014, , .		9
76	Minimization Algorithm for Symbolic Bisimilarity. Lecture Notes in Computer Science, 2009, , 267-284.	1.0	9
77	Tiles for Concurrent and Located Calculi. Electronic Notes in Theoretical Computer Science, 1997, 7, 115-140.	0.9	8
78	Shaped Hierarchical Architectural Design. Electronic Notes in Theoretical Computer Science, 2004, 109, 97-109.	0.9	8
79	Observational congruences for dynamically reconfigurable tile systems. Theoretical Computer Science, 2005, 335, 331-372.	0.5	8
80	Open Ended Systems, Dynamic Bisimulation and Tile Logic. Lecture Notes in Computer Science, 2000, , 440-456.	1.0	8
81	Zero-safe nets: The individual token approach. Lecture Notes in Computer Science, 1998, , 122-140.	1.0	8
82	Structured transition systems with parametric observations: observational congruences and minimal realizations. Mathematical Structures in Computer Science, 1997, 7, 241-282.	0.5	7
83	Can Actors and Ï€-Agents Live Together?. Electronic Notes in Theoretical Computer Science, 1998, 10, 189-196.	0.9	7
84	Two Graph-Based Techniques for Software Architecture Reconfiguration. Electronic Notes in Theoretical Computer Science, 2002, 51, 177-190.	0.9	7
85	From Co-algebraic Specifications to Implementation: The Mihda Toolkit. Lecture Notes in Computer Science, 2003, , 319-338.	1.0	7
86	Hoare vs Milner: Comparing Synchronizations in a Graphical Framework With Mobility. Electronic Notes in Theoretical Computer Science, 2006, 154, 55-72.	0.9	7
87	A Game-Theoretic Analysis of Grid Job Scheduling. Journal of Grid Computing, 2012, 10, 501-519.	2.5	7
88	Revisiting causality, coalgebraically. Acta Informatica, 2015, 52, 5-33.	0.5	7
89	Behaviour, Interaction and Dynamics. Lecture Notes in Computer Science, 2014, , 382-401.	1.0	7
90	Synchronization Algebras with Mobility for Graph Transformations. Electronic Notes in Theoretical Computer Science, 2005, 138, 43-60.	0.9	6

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91	A Service-Oriented UML Profile with Formal Support. Lecture Notes in Computer Science, 2009, , 455-469.	1.0	6
92	Network Conscious Ï€-calculus: A Concurrent Semantics. Electronic Notes in Theoretical Computer Science, 2012, 286, 291-306.	0.9	6
93	Real time market models and prosumer profiling. , 2013, , .		6
94	Modelling Fusion Calculus using HD-Automata. Lecture Notes in Computer Science, 2005, , 142-156.	1.0	6
95	Graph-Based Models of Internetworking Systems. Lecture Notes in Computer Science, 2003, , 242-266.	1.0	6
96	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
97	Flat Committed Join in Join. Electronic Notes in Theoretical Computer Science, 2004, 104, 39-59.	0.9	5
98	Reconfigurable and Software-Defined Networks of Connectors and Components. Lecture Notes in Computer Science, 2015, , 73-106.	1.0	5
99	A tile-based coordination view of asynchronous Ï€-calculus. Lecture Notes in Computer Science, 1997, , 52-70.	1.0	5
100	Complete Axioms for Stateless Connectors. Lecture Notes in Computer Science, 2005, , 98-113.	1.0	4
101	From Local to Global Knowledge and Back. Lecture Notes in Computer Science, 2015, , 185-220.	1.0	4
102	CC-Pi: A Constraint Language for Service Negotiation and Composition. Lecture Notes in Computer Science, 2011, , 262-281.	1.0	4
103	Constraint solving and programming. ACM Computing Surveys, 1996, 28, 70.	16.1	4
104	Linear Ordered Graph Grammars and Their Algebraic Foundations. Lecture Notes in Computer Science, 2002, , 317-333.	1.0	3
105	A Graphical Fusion Calculus. Electronic Notes in Theoretical Computer Science, 2004, 104, 199-215.	0.9	3
106	A Compositional Coalgebraic Model of a Fragment of Fusion Calculus. Electronic Notes in Theoretical Computer Science, 2006, 162, 135-139.	0.9	3
107	A compositional coalgebraic model of fusion calculus. The Journal of Logic and Algebraic Programming, 2007, 72, 78-97.	1.4	3
108	Normal Forms for Partitions and Relations. Lecture Notes in Computer Science, 1999, , 31-48.	1.0	3

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109	History dependent verification for partial order systems. DIMACS Series in Discrete Mathematics and Theoretical Computer Science, 1997, , 259-272.	0.0	3
110	On GS-Monoidal Theories for Graphs with Nesting. Lecture Notes in Computer Science, 2010, , 59-86.	1.0	3
111	Constraint Solving and Programming: What Next?. Constraints, 1997, 2, 87-91.	0.4	2
112	GSÂ·Î› Theories. Electronic Notes in Theoretical Computer Science, 2003, 69, 83-100.	0.9	2
113	Web Services and Models of Computation. Electronic Notes in Theoretical Computer Science, 2004, 105, 5-9.	0.9	2
114	Some Characterization Results for Permutation Algebras. Electronic Notes in Theoretical Computer Science, 2004, 104, 129-147.	0.9	2
115	Prototype Platforms for Distributed Agreements. Electronic Notes in Theoretical Computer Science, 2007, 180, 21-40.	0.9	2
116	Real time market models and prosumer profiling. , 2013, , .		2
117	Network-Conscious Ï€-calculus â€“ A Model of Pastry. Electronic Notes in Theoretical Computer Science, 2015, 312, 3-17.	0.9	2
118	cJoin: Join with communicating transactions. Mathematical Structures in Computer Science, 2015, 25, 566-618.	0.5	2
119	A coalgebraic semantics for causality in Petri nets. Journal of Logical and Algebraic Methods in Programming, 2015, 84, 853-883.	0.4	2
120	Decomposition Structures for Soft Constraint Evaluation Problems: An Algebraic Approach. Lecture Notes in Computer Science, 2018, , 179-200.	1.0	2
121	Dynamic Programming on Nominal Graphs. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 181, 80-96.	0.8	2
122	Comparing cospan-spans and tiles via a Hoare-style process calculus1 1Research partly supported by the Italian MIUR Project Teoria della Concorrenza, Linguaggi di Ordine Superiore e Strutture di Tipi (TOSCA).. Electronic Notes in Theoretical Computer Science, 2002, 62, 157-176.	0.9	1
123	Toward a Game-Theoretic Model of Grid Systems. Lecture Notes in Computer Science, 2010, , 57-72.	1.0	1
124	A Fixpoint-Based Calculus for Graph-Shaped Computational Fields. Lecture Notes in Computer Science, 2015, , 101-116.	1.0	1
125	Exploiting the Hierarchical Structure of Rule-Based Specifications for Decision Planning. Lecture Notes in Computer Science, 2010, , 2-16.	1.0	1
126	A Survey on Basic Connectors and Buffers. Lecture Notes in Computer Science, 2013, , 49-68.	1.0	1

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127	Preface to Special Issue: Coalgebraic methods in computer science. Mathematical Structures in Computer Science, 2003, 13, 199-199.	0.5	0
128	Foreword: special issue on structure transformation. Mathematical Structures in Computer Science, 2014, 24, .	0.5	0
129	A Normal Form for Stateful Connectors. Lecture Notes in Computer Science, 2015, , 205-227.	1.0	0
130	Constraint design rewriting. Science of Computer Programming, 2015, 97, 23-30.	1.5	0
131	Two Problems in Wide Area Network Programming. Lecture Notes in Computer Science, 2000, , 609-611.	1.0	0
132	A Unifying Formal Basis for the Sensoria Approach: A White Paper. Lecture Notes in Computer Science, 2011, , 15-25.	1.0	0
133	Symbolic and Asynchronous Semantics via Normalized Coalgebras. Logical Methods in Computer Science, 0, Volume 7, Issue 2, .	0.4	0
134	From Hierarchical BIP to Petri Calculus. Lecture Notes in Computer Science, 2014, , 54-68.	1.0	0
135	Causal computing. ACM Computing Surveys, 1996, 28, 51.	16.1	0
136	Causal Trees, Finally. Lecture Notes in Computer Science, 2015, , 27-43.	1.0	0
137	A Coalgebraic Approach to Unification Semantics of Logic Programming. Lecture Notes in Computer Science, 2019, , 223-240.	1.0	0
138	Algebras for Tree Decomposable Graphs. Lecture Notes in Computer Science, 2020, , 203-220.	1.0	0