

Catuscia Palamidessi

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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.

169
papers

3,047
citations

25
h-index

49
g-index

208
ext. papers

3,425
ext. citations

1
avg, IF

5.4
L-index

#	Paper	IF	Citations
169	Geo-indistinguishability 2013 ,		448
168	Declarative modeling of the operational behavior of logic languages. <i>Theoretical Computer Science</i> , 1989 , 69, 289-318	1.1	167
167	Optimal Geo-Indistinguishable Mechanisms for Location Privacy 2014 ,		134
166	Comparing the expressive power of the synchronous and asynchronous λ -calculi. <i>Mathematical Structures in Computer Science</i> , 2003 , 13, 685-719	0.5	115
165	Anonymity protocols as noisy channels. <i>Information and Computation</i> , 2008 , 206, 378-401	0.8	112
164	Broadening the Scope of Differential Privacy Using Metrics. <i>Lecture Notes in Computer Science</i> , 2013 , 82-102	0.9	103
163	Measuring Information Leakage Using Generalized Gain Functions 2012 ,		97
162	Quantitative Notions of Leakage for One-try Attacks. <i>Electronic Notes in Theoretical Computer Science</i> , 2009 , 249, 75-91	0.7	73
161	Kernel-LEAF: A logic plus functional language. <i>Journal of Computer and System Sciences</i> , 1991 , 42, 139-185		66
160	On the Bayes risk in information-hiding protocols. <i>Journal of Computer Security</i> , 2008 , 16, 531-571	0.8	58
159	Embedding as a Tool for Language Comparison. <i>Information and Computation</i> , 1994 , 108, 128-157	0.8	53
158	Comparing the expressive power of the synchronous and the asynchronous λ -calculus 1997 ,		50
157	Probabilistic Anonymity. <i>Lecture Notes in Computer Science</i> , 2005 , 171-185	0.9	49
156	Nondeterminism and infinite computations in constraint programming. <i>Theoretical Computer Science</i> , 1995 , 151, 37-78	1.1	47
155	A Model-Theoretic Reconstruction of the Operational Semantics of Logic Programs. <i>Information and Computation</i> , 1993 , 103, 86-113	0.8	45
154	Metrics for Action-labelled Quantitative Transition Systems. <i>Electronic Notes in Theoretical Computer Science</i> , 2006 , 153, 79-96	0.7	43
153	Probabilistic Asynchronous λ -Calculus. <i>Lecture Notes in Computer Science</i> , 2000 , 146-160	0.9	41

152	Proving concurrent constraint programs correct. <i>ACM Transactions on Programming Languages and Systems</i> , 1997 , 19, 685-725	1.6	40
151	Complementation in abstract interpretation. <i>ACM Transactions on Programming Languages and Systems</i> , 1997 , 19, 7-47	1.6	40
150	A Predictive Differentially-Private Mechanism for Mobility Traces. <i>Lecture Notes in Computer Science</i> , 2014 , 21-41	0.9	39
149	Constructing elastic distinguishability metrics for location privacy. <i>Proceedings on Privacy Enhancing Technologies</i> , 2015 , 2015, 156-170	3.2	36
148	Additive and Multiplicative Notions of Leakage, and Their Capacities 2014 ,		32
147	On the Relation between Differential Privacy and Quantitative Information Flow. <i>Lecture Notes in Computer Science</i> , 2011 , 60-76	0.9	30
146	A synchronization logic: Axiomatics and formal semantics of generalized horn clauses. <i>Information and Control</i> , 1984 , 60, 36-69		26
145	Differential Privacy: On the Trade-Off between Utility and Information Leakage. <i>Lecture Notes in Computer Science</i> , 2012 , 39-54	0.9	26
144	A fully abstract model for concurrent constraint programming. <i>Lecture Notes in Computer Science</i> , 1991 , 296-319	0.9	25
143	The failure of failures in a paradigm for asynchronous communication. <i>Lecture Notes in Computer Science</i> , 1991 , 111-126	0.9	25
142	Algebraic properties of idempotent substitutions 1990 , 386-399		24
141	A Probabilistic Applied Pi-Calculus 2007 , 175-190		22
140	Weak Probabilistic Anonymity. <i>Electronic Notes in Theoretical Computer Science</i> , 2007 , 180, 55-76	0.7	21
139	Encoding transition systems in sequent calculus. <i>Theoretical Computer Science</i> , 2003 , 294, 411-437	1.1	21
138	Computing the Leakage of Information-Hiding Systems. <i>Lecture Notes in Computer Science</i> , 2010 , 373-388	0.9	21
137	Making Random Choices Invisible to the Scheduler. <i>Lecture Notes in Computer Science</i> , 2007 , 42-58	0.9	20
136	Weak relative pseudo-complements of closure operators. <i>Algebra Universalis</i> , 1996 , 36, 405-412	0.4	19
135	Generalized Bisimulation Metrics. <i>Lecture Notes in Computer Science</i> , 2014 , 32-46	0.9	19

134	Axioms for Information Leakage 2016 ,		19
133	Information hiding in probabilistic concurrent systems. <i>Theoretical Computer Science</i> , 2011 , 412, 3072-3089		18
132	Probable innocence revisited. <i>Theoretical Computer Science</i> , 2006 , 367, 123-138	1.1	18
131	Foundational aspects of syntax. <i>ACM Computing Surveys</i> , 1999 , 31, 11	13.4	18
130	Efficient Utility Improvement for Location Privacy. <i>Proceedings on Privacy Enhancing Technologies</i> , 2017 , 2017, 308-328	3.2	18
129	Reconciling Belief and Vulnerability in Information Flow 2010 ,		16
128	Model Checking Probabilistic and Stochastic Extensions of the π -Calculus. <i>IEEE Transactions on Software Engineering</i> , 2009 , 35, 209-223	3.5	16
127	Axiomatizations for probabilistic finite-state behaviors. <i>Theoretical Computer Science</i> , 2007 , 373, 92-114	1.1	16
126	Tutorial on separation results in process calculi via leader election problems. <i>Theoretical Computer Science</i> , 2007 , 388, 267-289	1.1	16
125	Anonymity Protocols as Noisy Channels 2006 , 281-300		16
124	Compositional Methods for Information-Hiding 2008 , 443-457		16
123	Signature-based Symbolic Algorithm for Optimal Markov Chain Lumping 2007 ,		15
122	Invited Paper: Local Differential Privacy on Metric Spaces: Optimizing the Trade-Off with Utility 2018 ,		14
121	Location privacy via geo-indistinguishability. <i>ACM SIGLOG News</i> , 2015 , 2, 46-69	0.3	14
120	A randomized encoding of the . <i>Theoretical Computer Science</i> , 2005 , 335, 373-404	1.1	14
119	Spatial and Epistemic Modalities in Constraint-Based Process Calculi. <i>Lecture Notes in Computer Science</i> , 2012 , 317-332	0.9	14
118	A Temporal Concurrent Constraint Programming Calculus. <i>Lecture Notes in Computer Science</i> , 2001 , 302-316		14
117	Geo-indistinguishability: A Principled Approach to Location Privacy. <i>Lecture Notes in Computer Science</i> , 2015 , 49-72	0.9	13

116	Making random choices invisible to the scheduler. <i>Information and Computation</i> , 2010 , 208, 694-715	0.8	13
115	Probability of Error in Information-Hiding Protocols. <i>Computer Security Foundations Workshop (CSFW), Proceedings of the IEEE</i> , 2007 ,		13
114	On the Expressiveness of Linearity vs Persistence in the Asynchronous Pi-Calculus		13
113	On the information leakage of differentially-private mechanisms. <i>Journal of Computer Security</i> , 2015 , 23, 427-469	0.8	12
112	Quantitative information flow in interactive systems. <i>Journal of Computer Security</i> , 2012 , 20, 3-50	0.8	12
111	Probabilistic Information Flow 2010 ,		12
110	An algebraic perspective of constraint logic programming. <i>Journal of Logic and Computation</i> , 1997 , 7, 1-38	0.4	12
109	Constraint Logic Programming with Dynamic Scheduling: A Semantics Based on Closure Operators. <i>Information and Computation</i> , 1997 , 137, 41-67	0.8	12
108	Confluence in concurrent constraint programming. <i>Theoretical Computer Science</i> , 1997 , 183, 281-315	1.1	12
107	On the expressive power of temporal concurrent constraint programming languages 2002 ,		12
106	Proving concurrent constraint programs correct 1994 ,		12
105	Compositional Reasoning for Probabilistic Finite-State Behaviors. <i>Lecture Notes in Computer Science</i> , 2005 , 309-337	0.9	12
104	Concurrent Constraint Programming with Process Mobility. <i>Lecture Notes in Computer Science</i> , 2000 , 463-477	0.9	12
103	A Congruence Format for Name-passing Calculi. <i>Electronic Notes in Theoretical Computer Science</i> , 2006 , 156, 169-189	0.7	11
102	Differential Privacy for Relational Algebra: Improving the Sensitivity Bounds via Constraint Systems. <i>Electronic Proceedings in Theoretical Computer Science</i> , EPTCS,85 , 92-105		11
101	On the Asynchronous Nature of the Asynchronous π -Calculus. <i>Lecture Notes in Computer Science</i> , 2008 , 473-492	0.9	11
100	Information Flow in Interactive Systems. <i>Lecture Notes in Computer Science</i> , 2010 , 102-116	0.9	11
99	Preserving differential privacy under finite-precision semantics. <i>Theoretical Computer Science</i> , 2016 , 655, 92-108	1.1	11

98	Quantitative Information Flow and Applications to Differential Privacy. <i>Lecture Notes in Computer Science</i> , 2011 , 211-230	0.9	10
97	Model checking the probabilistic pi-calculus 2007 ,		9
96	On the asynchronous nature of communication in concurrent logic languages: A fully abstract model based on sequences. <i>Lecture Notes in Computer Science</i> , 1990 , 99-114	0.9	9
95	Contributions to the semantics of logic perpetual processes. <i>Acta Informatica</i> , 1988 , 25, 691-711	0.9	9
94	Information Leakage Games. <i>Lecture Notes in Computer Science</i> , 2017 , 437-457	0.9	9
93	Partial order and SOS semantics for linear constraint programs. <i>Lecture Notes in Computer Science</i> , 1997 , 256-273	0.9	9
92	An axiomatization of information flow measures. <i>Theoretical Computer Science</i> , 2019 , 777, 32-54	1.1	8
91	Foundational aspects of security. <i>Journal of Computer Security</i> , 2014 , 22, 201-202	0.8	8
90	Information Hiding in Probabilistic Concurrent Systems 2010 ,		8
89	Separation of synchronous and asynchronous communication via testing. <i>Theoretical Computer Science</i> , 2007 , 386, 218-235	1.1	8
88	Compositionality Results for Quantitative Information Flow. <i>Lecture Notes in Computer Science</i> , 2014 , 368-383	0.9	8
87	Axiomatizations for Probabilistic Finite-State Behaviors. <i>Lecture Notes in Computer Science</i> , 2005 , 110-124.	0.9	8
86	Complementation in abstract interpretation. <i>Lecture Notes in Computer Science</i> , 1995 , 100-117	0.9	8
85	Separation of Synchronous and Asynchronous Communication Via Testing. <i>Electronic Notes in Theoretical Computer Science</i> , 2006 , 154, 95-108	0.7	7
84	Location Privacy via Geo-Indistinguishability. <i>Lecture Notes in Computer Science</i> , 2015 , 28-38	0.9	7
83	The Science of Quantitative Information Flow. <i>Information Security and Cryptography</i> , 2020 ,	3.6	7
82	Deriving Labels and Bisimilarity for Concurrent Constraint Programming. <i>Lecture Notes in Computer Science</i> , 2011 , 138-152	0.9	7
81	A Framework for Analyzing Probabilistic Protocols and Its Application to the Partial Secrets Exchange. <i>Lecture Notes in Computer Science</i> , 2005 , 146-162	0.9	7

80	Embedding as a tool for language comparison: On the CSP hierarchy. <i>Lecture Notes in Computer Science</i> , 1991 , 127-141	0.9	7
79	Abstract interpretation of temporal concurrent constraint programs. <i>Theory and Practice of Logic Programming</i> , 2015 , 15, 312-357	0.8	6
78	A framework for abstract interpretation of timed concurrent constraint programs 2009 ,		6
77	A framework for analyzing probabilistic protocols and its application to the Partial Secrets Exchange. <i>Theoretical Computer Science</i> , 2007 , 389, 512-527	1.1	6
76	On the generalized dining philosophers problem 2001 ,		6
75	A declarative approach for first-order built-in's of Prolog. <i>Applicable Algebra in Engineering, Communications and Computing</i> , 1994 , 5, 159-191	0.6	6
74	Hide and New in the Pi-Calculus. <i>Electronic Proceedings in Theoretical Computer Science, EPTCS</i> , 89 , 65-79		6
73	2019 ,		6
72	A Game-Theoretic Approach to Information-Flow Control via Protocol Composition. <i>Entropy</i> , 2018 , 20,	2.8	6
71	Compositional modelling of signalling pathways in timed concurrent constraint programming 2010 ,		5
70	A quantitative doxastic logic for probabilistic processes and applications to information-hiding. <i>Journal of Applied Non-Classical Logics</i> , 2009 , 19, 489-516	0.5	5
69	Symbolic Bisimulations for Probabilistic Systems 2007 ,		5
68	Negation as Instantiation. <i>Information and Computation</i> , 1995 , 120, 263-278	0.8	5
67	Semantic models for concurrent logic languages. <i>Theoretical Computer Science</i> , 1991 , 86, 3-33	1.1	5
66	Structural operational semantics for AKL. <i>Future Generation Computer Systems</i> , 1992 , 8, 409-421	7.5	5
65	Declarative Diagnosis of Temporal Concurrent Constraint Programs 2007 , 271-285		5
64	Probable Innocence in the Presence of Independent Knowledge. <i>Lecture Notes in Computer Science</i> , 2010 , 141-156	0.9	5
63	Confluence in concurrent constraint programming. <i>Lecture Notes in Computer Science</i> , 1995 , 531-545	0.9	5

62	Control flow versus logic: A denotational and a declarative model for Guarded Horn Clauses. <i>Lecture Notes in Computer Science</i> , 1989 , 165-176	0.9	5
61	Expressiveness of Probabilistic λ -calculus. <i>Electronic Notes in Theoretical Computer Science</i> , 2006 , 164, 119-136	0.7	4
60	Probabilistic and Nondeterministic Aspects of Anonymity. <i>Electronic Notes in Theoretical Computer Science</i> , 2006 , 155, 33-42	0.7	4
59	Differential privacy. <i>Information Security and Cryptography</i> , 2020 , 433-444	3.6	4
58	Leakage and Protocol Composition in a Game-Theoretic Perspective. <i>Lecture Notes in Computer Science</i> , 2018 , 134-159	0.9	4
57	Safe Equivalences for Security Properties. <i>International Federation for Information Processing</i> , 2010 , 55-70		4
56	Feature Selection with Rényi Min-Entropy. <i>Lecture Notes in Computer Science</i> , 2018 , 226-239	0.9	4
55	Comparing Systems: Max-Case Refinement Orders and Application to Differential Privacy 2019 ,		3
54	Probabilistic and nondeterministic aspects of anonymity. <i>Theoretical Computer Science</i> , 2009 , 410, 4006-4025		3
53	Encoding Transition Systems in Sequent Calculus: Preliminary Report. <i>Electronic Notes in Theoretical Computer Science</i> , 1996 , 3, 138-152	0.7	3
52	Explicit fairness in testing semantics. <i>Logical Methods in Computer Science</i> , 2009 , 5,		3
51	A non-local method for robustness analysis of floating point programs. <i>Electronic Proceedings in Theoretical Computer Science</i> , <i>EPTCS</i> ,85, 63-76		3
50	A Declarative Framework for Security: Secure Concurrent Constraint Programming. <i>Lecture Notes in Computer Science</i> , 2006 , 449-450	0.9	3
49	Probable Innocence Revisited. <i>Lecture Notes in Computer Science</i> , 2006 , 142-157	0.9	3
48	On Recursion, Replication and Scope Mechanisms in Process Calculi. <i>Lecture Notes in Computer Science</i> , 2007 , 185-206	0.9	3
47	A Logical Characterization of Differential Privacy via Behavioral Metrics. <i>Lecture Notes in Computer Science</i> , 2018 , 75-96	0.9	3
46	Generalized Differential Privacy: Regions of Priors That Admit Robust Optimal Mechanisms. <i>Lecture Notes in Computer Science</i> , 2014 , 292-318	0.9	3
45	A Differentially Private Mechanism of Optimal Utility for a Region of Priors. <i>Lecture Notes in Computer Science</i> , 2013 , 41-62	0.9	3

44	Optimal Obfuscation Mechanisms via Machine Learning 2020 ,		3
43	Machine learning fairness notions: Bridging the gap with real-world applications. <i>Information Processing and Management</i> , 2021 , 58, 102642	6.3	3
42	The Replacement Operation for CCP Programs. <i>Lecture Notes in Computer Science</i> , 2000 , 216-233	0.9	3
41	A Randomized Distributed Encoding of the λ -Calculus with Mixed Choice 2002 , 537-549		3
40	Quantifying leakage in the presence of unreliable sources of information. <i>Journal of Computer and System Sciences</i> , 2017 , 88, 27-52	1	2
39	Preface to the special issue on quantitative information flow. <i>Mathematical Structures in Computer Science</i> , 2015 , 25, 203-206	0.5	2
38	Epistemic Strategies and Games on Concurrent Processes. <i>ACM Transactions on Computational Logic</i> , 2012 , 13, 1-35	0.9	2
37	From failure to success: comparing a denotational and a declarative semantics for Horn clause logic. <i>Theoretical Computer Science</i> , 1992 , 101, 239-263	1.1	2
36	Slicing Concurrent Constraint Programs. <i>Lecture Notes in Computer Science</i> , 2017 , 76-93	0.9	2
35	Concurrent and Reactive Constraint Programming. <i>Lecture Notes in Computer Science</i> , 2010 , 231-253	0.9	2
34	Dynamic Slicing for Concurrent Constraint Languages. <i>Fundamenta Informaticae</i> , 2020 , 177, 331-357	1	2
33	Differential Inference Testing: A Practical Approach to Evaluate Sanitizations of Datasets 2019 ,		2
32	Concurrent constraint programming. <i>Lecture Notes in Computer Science</i> , 1994 , 1-2	0.9	2
31	A logical characterization of differential privacy. <i>Science of Computer Programming</i> , 2020 , 188, 102388	1.1	1
30	Catch me if you can 2019 ,		1
29	Fair λ . <i>Electronic Notes in Theoretical Computer Science</i> , 2007 , 175, 3-26	0.7	1
28	Anonymity in Probabilistic and Nondeterministic Systems. <i>Electronic Notes in Theoretical Computer Science</i> , 2006 , 162, 277-279	0.7	1
27	A theory of first-order built-in's of prolog 1992 , 69-83		1

26	Estimating g-Leakage via Machine Learning 2020 ,		1
25	Preserving differential privacy under finite-precision semantics.. <i>Electronic Proceedings in Theoretical Computer Science, EPTCS</i> ,117, 1-18		1
24	Separation Results Via Leader Election Problems. <i>Lecture Notes in Computer Science</i> , 2006 , 172-194	0.9	1
23	Utility-Preserving Privacy Mechanisms for Counting Queries. <i>Lecture Notes in Computer Science</i> , 2019 , 487-495	0.9	1
22	Enhanced Models for Privacy and Utility in Continuous-Time Diffusion Networks. <i>Lecture Notes in Computer Science</i> , 2019 , 313-331	0.9	1
21	Formal Approaches to Information-Hiding (Tutorial) 2007 , 347-362		1
20	Quantitative Approaches to the Protection of Private Information: State of the Art and Some Open Challenges. <i>Lecture Notes in Computer Science</i> , 2015 , 3-7	0.9	1
19	A Declarative View of Signaling Pathways. <i>Lecture Notes in Computer Science</i> , 2015 , 183-201	0.9	1
18	Some Bridging Results and Challenges in Classical, Quantum and Computational Randomness 2011 , 73-91		1
17	Compositional methods for information-hiding \square <i>Mathematical Structures in Computer Science</i> , 2016 , 26, 908-932	0.5	1
16	Geometric Noise for Locally Private Counting Queries 2018 ,		1
15	Entropy and Attack Models in Information Flow. <i>International Federation for Information Processing</i> , 2010 , 53-54		
14	Comments on \square logic programming with equations \square <i>The Journal of Logic Programming</i> , 1991 , 11, 85-89		
13	Universal Timed Concurrent Constraint Programming 2007 , 464-465		
12	Structural operational semantics for Kernel Andorra Prolog. <i>Lecture Notes in Computer Science</i> , 1991 , 238-253	0.9	
11	Concurrent constraint programming. <i>Lecture Notes in Computer Science</i> , 1994 , 1-2	0.9	
10	A logical denotational semantics for constraint logic programming. <i>Lecture Notes in Computer Science</i> , 1994 , 195-210	0.9	
9	Linear constraint systems as high-level nets. <i>Lecture Notes in Computer Science</i> , 1996 , 498-513	0.9	

- 8 Expressiveness and Distributed Implementation of Concurrent Calculi with Link Mobility. *Lecture Notes in Computer Science*, **1999**, 28-29 0.9
- 7 Bounds on the Leakage of the Input Distribution in Information-Hiding Protocols. *Lecture Notes in Computer Science*, **2009**, 36-51 0.9
- 6 Compositionality of Secure Information Flow. *Lecture Notes in Computer Science*, **2010**, 19-19 0.9
- 5 Interactive Information Flow. *Lecture Notes in Computer Science*, **2010**, 111-111 0.9
- 4 Quantitative Approaches to Information Protection. *Lecture Notes in Computer Science*, **2013**, 31-32 0.9
- 3 Refinement Orders for Quantitative Information Flow and Differential Privacy. *Journal of Cybersecurity and Privacy*, **2021**, 1, 40-77 4
- 2 Enhanced models for privacy and utility in continuous-time diffusion networks. *International Journal of Information Security*, **2021**, 20, 763-782 2.8
- 1 Information Leakage Games: Exploring Information as a Utility Function. *ACM Transactions on Privacy and Security*, **2022**, 25, 1-36 2.9