Chris Hankin

List of Publications by Year
in descending order

63 papers	2,080 citations	516710 16 h-index	395702 33 g-index
65 all docs	65 docs citations	65 times ranked	1264 citing authors

#	Article	IF	Citations
1	Principles of Program Analysis. , 1999, , .		812
2	Decision support approaches for cyber security investment. Decision Support Systems, 2016, 86, 13-23.	5.9	166
3	Strictness analysis for higher-order functions. Science of Computer Programming, 1986, 7, 249-278.	1.9	147
4	A framework for security analysis of mobile wireless networks. Theoretical Computer Science, 2006, 367, 203-227.	0.9	109
5	Efficient field-sensitive pointer analysis of C. ACM Transactions on Programming Languages and Systems, 2007, 30, 4.	2.1	78
6	Real-time processing of social media with SENTINEL: A syndromic surveillance system incorporating deep learning for health classification. Information Processing and Management, 2019, 56, 1166-1184.	8.6	69
7	Approximate non-interference. Journal of Computer Security, 2004, 12, 37-81.	0.8	51
8	Fast Multi-Scale Detection of Relevant Communities in Large-Scale Networks. Computer Journal, 2013, 56, 1136-1150.	2.4	43
9	Game Theory Meets Information Security Management. IFIP Advances in Information and Communication Technology, 2014, , 15-29.	0.7	39
10	Measuring the confinement of probabilistic systems. Theoretical Computer Science, 2005, 340, 3-56.	0.9	37
11	Quantitative Relations and Approximate Process Equivalences. Lecture Notes in Computer Science, 2003, , 508-522.	1.3	34
12	Online Cycle Detection and Difference Propagation: Applications to Pointer Analysis. Software Quality Journal, 2004, 12, 311-337.	2.2	33
13	Efficient field-sensitive pointer analysis for C. , 2004, , .		27
14	Cybersecurity Games and Investments: A Decision Support Approach. Lecture Notes in Computer Science, 2014, , 266-286.	1.3	26
15	DEFENDER: Detecting and Forecasting Epidemics Using Novel Data-Analytics for Enhanced Response. PLoS ONE, 2016, 11, e0155417.	2.5	25
16	Multi-scale community detection using stability optimisation. International Journal of Web Based Communities, 2013, 9, 323.	0.3	24
17	Information flow for Algol-like languages. Computer Languages, Systems and Structures, 2002, 28, 3-28.	1.4	22
18	Adversarial Machine Learning Beyond the Image Domain. , 2019, , .		22

#	ARTICLE	IF	CITATIONS
19	Adversarial Attacks on Time-Series Intrusion Detection for Industrial Control Systems. , 2020, , .		17
20	Formal Security Analysis for Ad-Hoc Networks. Electronic Notes in Theoretical Computer Science, 2006, 142, 195-213.	0.9	16
21	Measuring cyber-physical security in industrial control systems via minimum-effort attack strategies. Journal of Information Security and Applications, 2020, 52, 102471.	2.5	16
22	Quantifying Timing Leaks and Cost Optimisation. Lecture Notes in Computer Science, 2008, , 81-96.	1.3	16
23	Discovery of anomalous behaviour in temporal networks. Social Networks, 2015, 41, 18-25.	2.1	15
24	Ranking twitter influence by combining network centrality and influence observables in an evolutionary model. Journal of Complex Networks, 2014, 2, 495-517.	1.8	14
25	The early bird catches the term: combining twitter and news data for event detection and situational awareness. Journal of Biomedical Semantics, 2016, 7, 61.	1.6	14
26	Reversible combinatory logic. Mathematical Structures in Computer Science, 2006, 16, 621.	0.6	12
27	Defense-in-depth vs. Critical Component Defense for Industrial Control Systems. , 0, , .		12
28	Quantitative static analysis of distributed systems. Journal of Functional Programming, 2005, 15, 703.	0.8	11
29	CPS-MT: A Real-Time Cyber-Physical System Monitoring Tool for Security Research. , 2018, , .		11
30	Probabilistic Confinement in a Declarative Framework. Electronic Notes in Theoretical Computer Science, 2001, 48, 108-130.	0.9	10
31	Two Formal Approaches for Approximating Noninterference Properties. Lecture Notes in Computer Science, 2004, , 1-43.	1.3	10
32	Using Machine Learning to Infer Reasoning Provenance From User Interaction Log Data. Journal of Cognitive Engineering and Decision Making, 2017, 11, 23-41.	2.3	10
33	Probabilistic KLAIM. Lecture Notes in Computer Science, 2004, , 119-134.	1.3	10
34	A Systematic Approach to Probabilistic Pointer Analysis. Lecture Notes in Computer Science, 2007, , 335-350.	1.3	10
35	Advice for Coordination. , 2008, , 153-168.		9
36	Continuous-Time Probabilistic KLAIM. Electronic Notes in Theoretical Computer Science, 2005, 128, 27-38.	0.9	8

#	Article	IF	Citations
37	Advice from Belnap Policies. , 2009, , .		8
38	Tempus fugit: How to plug it. The Journal of Logic and Algebraic Programming, 2007, 72, 173-190.	1.4	7
39	Fast multi-scale detection of overlapping communities using local criteria. Computing (Vienna/New) Tj ETQq1 1 0.784314 rgBT /Overl	4.8	7
40	Analysing Approximate Confinement under Uniform Attacks. Lecture Notes in Computer Science, 2002, , 310-325.	1.3	7
41	Abstract Interpretation for Worst and Average Case Analysis. Lecture Notes in Computer Science, 2007, , 160-174.	1.3	7
42	Probabilistic timing covert channels: to close or not to close?. International Journal of Information Security, 2011, 10, 83-106.	3.4	6
43	Game Theory and Industrial Control Systems. Lecture Notes in Computer Science, 2016, , 178-190.	1.3	5
44	Probabilistic Semantics and Program Analysis. Lecture Notes in Computer Science, 2010, , 1-42.	1.3	5
45	Analysing Mission-critical Cyber-physical Systems with AND/OR Graphs and MaxSAT. ACM Transactions on Cyber-Physical Systems, 2021, 5, 1-29.	2.5	4
46	Modelling Cost-Effectiveness of Defenses in Industrial Control Systems. Lecture Notes in Computer Science, 2016, , 187-200.	1.3	4
47	On Probabilistic Techniques for Data Flow Analysis. Electronic Notes in Theoretical Computer Science, 2007, 190, 59-77.	0.9	3
48	Predictive access control for distributed computation. Science of Computer Programming, 2013, 78, 1264-1277.	1.9	3
49	Scalable Approach to Enhancing ICS Resilience by Network Diversity. , 2020, , .		3
50	Probabilistic Linda-Based Coordination Languages. Lecture Notes in Computer Science, 2005, , 120-140.	1.3	3
51	Assessing Cyber-Physical Security in Industrial Control Systems. , 2019, , .		3
52	On Reversible Combinatory Logic. Electronic Notes in Theoretical Computer Science, 2006, 135, 25-35.	0.9	2
53	Program Analysis Probably Counts. Computer Journal, 2010, 53, 871-880.	2.4	2
54	Fault Tree Analysis: Identifying Maximum Probability Minimal Cut Sets with MaxSAT. , 2020, , .		2

#	Article	IF	Citations
55	On a Probabilistic Chemical Abstract Machine and the Expressiveness of Linda Languages. Lecture Notes in Computer Science, 2006, , 388-407.	1.3	2
56	Probabilistic Aspects: Checking Security in an Imperfect World. Lecture Notes in Computer Science, 2010, , 348-363.	1.3	2
57	Payoffs, Intensionality and Abstraction in Games. Lecture Notes in Computer Science, 2013, , 69-82.	1.3	2
58	A Model-based Approach to Interdependency between Safety and Security in ICS. , 2015, , .		2
59	λ-calculus and Quantitative Program Analysis. Electronic Notes in Theoretical Computer Science, 2005, 112, 5-18.	0.9	1
60	Regulating automated decision making. Communications of the ACM, 2018, 61, 5-5.	4.5	1
61	Welcome to the Europe region special section. Communications of the ACM, 2019, 62, 28-28.	4.5	1
62	Mathematical models of information security. Engineering & Technology Reference, 2012, 1, .	0.1	0
63	A short note on Simulation and Abstraction. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 129, 337-340.	0.8	0