

Chris Hankin

List of Publications by Year in descending order

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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	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
2	Scalable Approach to Enhancing ICS Resilience by Network Diversity. , 2020, , .		3
3	Fault Tree Analysis: Identifying Maximum Probability Minimal Cut Sets with MaxSAT. , 2020, , .		2
4	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
5	Adversarial Attacks on Time-Series Intrusion Detection for Industrial Control Systems. , 2020, , .		17
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	Adversarial Machine Learning Beyond the Image Domain. , 2019, , .		22
8	Assessing Cyber-Physical Security in Industrial Control Systems. , 2019, , .		3
9	Welcome to the Europe region special section. Communications of the ACM, 2019, 62, 28-28.	4.5	1
10	CPS-MT: A Real-Time Cyber-Physical System Monitoring Tool for Security Research. , 2018, , .		11
11	Regulating automated decision making. Communications of the ACM, 2018, 61, 5-5.	4.5	1
12	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
13	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
14	Game Theory and Industrial Control Systems. Lecture Notes in Computer Science, 2016, , 178-190.	1.3	5
15	Decision support approaches for cyber security investment. Decision Support Systems, 2016, 86, 13-23.	5.9	166
16	DEFENDER: Detecting and Forecasting Epidemics Using Novel Data-Analytics for Enhanced Response. PLoS ONE, 2016, 11, e0155417.	2.5	25
17	Modelling Cost-Effectiveness of Defenses in Industrial Control Systems. Lecture Notes in Computer Science, 2016, , 187-200.	1.3	4
18	Discovery of anomalous behaviour in temporal networks. Social Networks, 2015, 41, 18-25.	2.1	15

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19	A Model-based Approach to Interdependency between Safety and Security in ICS. , 2015, , .		2
20	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
21	Fast multi-scale detection of overlapping communities using local criteria. Computing (Vienna/New) Tj ETQq1 1 0.784314 rgBT /Overl 4.8	4.8	7
22	Cybersecurity Games and Investments: A Decision Support Approach. Lecture Notes in Computer Science, 2014, , 266-286.	1.3	26
23	Game Theory Meets Information Security Management. IFIP Advances in Information and Communication Technology, 2014, , 15-29.	0.7	39
24	Fast Multi-Scale Detection of Relevant Communities in Large-Scale Networks. Computer Journal, 2013, 56, 1136-1150.	2.4	43
25	Predictive access control for distributed computation. Science of Computer Programming, 2013, 78, 1264-1277.	1.9	3
26	Multi-scale community detection using stability optimisation. International Journal of Web Based Communities, 2013, 9, 323.	0.3	24
27	Payoffs, Intensionality and Abstraction in Games. Lecture Notes in Computer Science, 2013, , 69-82.	1.3	2
28	Mathematical models of information security. Engineering & Technology Reference, 2012, 1, .	0.1	0
29	Probabilistic timing covert channels: to close or not to close?. International Journal of Information Security, 2011, 10, 83-106.	3.4	6
30	Program Analysis Probably Counts. Computer Journal, 2010, 53, 871-880.	2.4	2
31	Probabilistic Semantics and Program Analysis. Lecture Notes in Computer Science, 2010, , 1-42.	1.3	5
32	Probabilistic Aspects: Checking Security in an Imperfect World. Lecture Notes in Computer Science, 2010, , 348-363.	1.3	2
33	Advice from Belnap Policies. , 2009, , .		8
34	Advice for Coordination. , 2008, , 153-168.		9
35	Quantifying Timing Leaks and Cost Optimisation. Lecture Notes in Computer Science, 2008, , 81-96.	1.3	16
36	Efficient field-sensitive pointer analysis of C. ACM Transactions on Programming Languages and Systems, 2007, 30, 4.	2.1	78

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37	Tempus fugit: How to plug it. The Journal of Logic and Algebraic Programming, 2007, 72, 173-190.	1.4	7
38	On Probabilistic Techniques for Data Flow Analysis. Electronic Notes in Theoretical Computer Science, 2007, 190, 59-77.	0.9	3
39	Abstract Interpretation for Worst and Average Case Analysis. Lecture Notes in Computer Science, 2007, , 160-174.	1.3	7
40	A Systematic Approach to Probabilistic Pointer Analysis. Lecture Notes in Computer Science, 2007, , 335-350.	1.3	10
41	Formal Security Analysis for Ad-Hoc Networks. Electronic Notes in Theoretical Computer Science, 2006, 142, 195-213.	0.9	16
42	On Reversible Combinatory Logic. Electronic Notes in Theoretical Computer Science, 2006, 135, 25-35.	0.9	2
43	A framework for security analysis of mobile wireless networks. Theoretical Computer Science, 2006, 367, 203-227.	0.9	109
44	Reversible combinatory logic. Mathematical Structures in Computer Science, 2006, 16, 621.	0.6	12
45	On a Probabilistic Chemical Abstract Machine and the Expressiveness of Linda Languages. Lecture Notes in Computer Science, 2006, , 388-407.	1.3	2
46	Quantitative static analysis of distributed systems. Journal of Functional Programming, 2005, 15, 703.	0.8	11
47	$\hat{\lambda}$ -calculus and Quantitative Program Analysis. Electronic Notes in Theoretical Computer Science, 2005, 112, 5-18.	0.9	1
48	Continuous-Time Probabilistic KLAIM. Electronic Notes in Theoretical Computer Science, 2005, 128, 27-38.	0.9	8
49	Measuring the confinement of probabilistic systems. Theoretical Computer Science, 2005, 340, 3-56.	0.9	37
50	Probabilistic Linda-Based Coordination Languages. Lecture Notes in Computer Science, 2005, , 120-140.	1.3	3
51	Approximate non-interference. Journal of Computer Security, 2004, 12, 37-81.	0.8	51
52	Efficient field-sensitive pointer analysis for C. , 2004, , .		27
53	Two Formal Approaches for Approximating Noninterference Properties. Lecture Notes in Computer Science, 2004, , 1-43.	1.3	10
54	Online Cycle Detection and Difference Propagation: Applications to Pointer Analysis. Software Quality Journal, 2004, 12, 311-337.	2.2	33

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55	Probabilistic KLAIM. Lecture Notes in Computer Science, 2004, , 119-134.	1.3	10
56	Quantitative Relations and Approximate Process Equivalences. Lecture Notes in Computer Science, 2003, , 508-522.	1.3	34
57	Information flow for Algol-like languages. Computer Languages, Systems and Structures, 2002, 28, 3-28.	1.4	22
58	Analysing Approximate Confinement under Uniform Attacks. Lecture Notes in Computer Science, 2002, , 310-325.	1.3	7
59	Probabilistic Confinement in a Declarative Framework. Electronic Notes in Theoretical Computer Science, 2001, 48, 108-130.	0.9	10
60	Principles of Program Analysis. , 1999, , .		812
61	Strictness analysis for higher-order functions. Science of Computer Programming, 1986, 7, 249-278.	1.9	147
62	Defense-in-depth vs. Critical Component Defense for Industrial Control Systems. , 0, , .		12
63	A short note on Simulation and Abstraction. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 129, 337-340.	0.8	0