

# Pete Burnap

## List of Publications by Year in descending order

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Version: 2024-02-01

94  
papers

4,215  
citations

186265

28  
h-index

128289

60  
g-index

95  
all docs

95  
docs citations

95  
times ranked

3722  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cyberattacks and Countermeasures for In-Vehicle Networks. ACM Computing Surveys, 2022, 54, 1-37.	23.0	67
2	Cybersecurity of Industrial Cyber-Physical Systems: A Review. ACM Computing Surveys, 2022, 54, 1-35.	23.0	55
3	Disrupting networks of hate: characterising hateful networks and removing critical nodes. Social Network Analysis and Mining, 2022, 12, 1.	2.8	3
4	A Configurable Dependency Model of a SCADA System for Goal-Oriented Risk Assessment. Applied Sciences (Switzerland), 2022, 12, 4880.	2.5	9
5	Bane or Boon: Measuring the effect of evasive malware on system call classifiers. Journal of Information Security and Applications, 2022, 67, 103202.	2.5	4
6	Dynamic real-time risk analytics of uncontrollable states in complex internet of things systems: cyber risk at the edge. Environment Systems and Decisions, 2021, 41, 236-247.	3.4	8
7	“Chatty Devices” and edge-based activity classification. Discover Internet of Things, 2021, 1, 1.	4.8	2
8	Epistemological Equation for Analysing Uncontrollable States in Complex Systems: Quantifying Cyber Risks from the Internet of Things. The Review of Socionetwork Strategies, 2021, 15, 381-411.	1.5	25
9	Unsupervised Learning for Product Use Activity Recognition: An Exploratory Study of a “Chatty Device” Sensors, 2021, 21, 4991.	3.8	7
10	A three-tiered intrusion detection system for industrial control systems. Translational Research in Oral Oncology, 2021, 7, .	3.3	10
11	Optimized Predictive Control for AGC Cyber Resiliency. , 2021, , .		2
12	Real-Time Malware Process Detection and Automated Process Killing. Security and Communication Networks, 2021, 2021, 1-23.	1.5	5
13	Linking Twitter and Survey Data: The Impact of Survey Mode and Demographics on Consent Rates Across Three UK Studies. Social Science Computer Review, 2020, 38, 517-532.	4.2	37
14	Are youth suicide memorial sites on Facebook different from those for other sudden deaths?. Death Studies, 2020, 44, 793-801.	2.7	6
15	Challenges and performance metrics for security operations center analysts: a systematic review. Journal of Cyber Security Technology, 2020, 4, 125-152.	2.9	37
16	Towards a Framework for Measuring the Performance of a Security Operations Center Analyst. , 2020, , .		6
17	PharmaCrypt: Blockchain for Critical Pharmaceutical Industry to Counterfeit Drugs. Computer, 2020, 53, 29-44.	1.1	37
18	BLATTA: Early Exploit Detection on Network Traffic with Recurrent Neural Networks. Security and Communication Networks, 2020, 2020, 1-15.	1.5	6

#	ARTICLE	IF	CITATIONS
19	Social media forensics applied to assessment of post-critical incident social reaction: The case of the 2017 Manchester Arena terrorist attack. <i>Forensic Science International</i> , 2020, 313, 110364.	2.2	10
20	Antisemitism on Twitter: Collective Efficacy and the Role of Community Organisations in Challenging Online Hate Speech. <i>Social Media and Society</i> , 2020, 6, 205630512091685.	3.0	19
21	Security analytics for real-time forecasting of cyberattacks. <i>Software - Practice and Experience</i> , 2020, , .	3.6	2
22	Design of a dynamic and self-adapting system, supported with artificial intelligence, machine learning and real-time intelligence for predictive cyber risk analytics in extreme environments – cyber risk in the colonisation of Mars. <i>Safety in Extreme Environments</i> , 2020, 2, 219-230.	3.1	19
23	Impact and Key Challenges of Insider Threats on Organizations and Critical Businesses. <i>Electronics (Switzerland)</i> , 2020, 9, 1460.	3.1	30
24	Emotions Behind Drive-by Download Propagation on Twitter. <i>ACM Transactions on the Web</i> , 2020, 14, 1-26.	2.5	4
25	The Number and Characteristics of Newspaper and Twitter Reports on Suicides and Road Traffic Deaths in Young People. <i>Archives of Suicide Research</i> , 2019, 23, 507-522.	2.3	8
26	“The Enemy Among Us” <i>ACM Transactions on the Web</i> , 2019, 13, 1-26.	2.5	37
27	Fuzzy Multi-task Learning for Hate Speech Type Identification. , 2019, , .		22
28	Getting to the root of the problem: A detailed comparison of kernel and user level data for dynamic malware analysis. <i>Journal of Information Security and Applications</i> , 2019, 48, 102365.	2.5	11
29	LAB to SOC: Robust Features for Dynamic Malware Detection. , 2019, , .		7
30	A Fuzzy Approach to Text Classification With Two-Stage Training for Ambiguous Instances. <i>IEEE Transactions on Computational Social Systems</i> , 2019, 6, 227-240.	4.4	53
31	Chatty factories: a vision for the future of product design and manufacture with IoT. , 2019, , .		4
32	Privacy-Aware Cloud Ecosystems and GDPR Compliance. , 2019, , .		12
33	Prediction of drive-by download attacks on Twitter. <i>Information Processing and Management</i> , 2019, 56, 1133-1145.	8.6	15
34	Risk assessment methods for converged IoT and SCADA systems: review and recommendations. , 2019, , .		3
35	Interaction and Transformation on Social Media: The Case of Twitter Campaigns. <i>Social Media and Society</i> , 2018, 4, 205630511775072.	3.0	25
36	Malware classification using self organising feature maps and machine activity data. <i>Computers and Security</i> , 2018, 73, 399-410.	6.0	104

#	ARTICLE	IF	CITATIONS
37	Unsupervised Approach for Detecting Low Rate Attacks on Network Traffic with Autoencoder. , 2018, , .		15
38	Suspended Accounts: A Source of Tweets with Disgust and Anger Emotions for Augmenting Hate Speech Data Sample. , 2018, , .		14
39	Early-stage malware prediction using recurrent neural networks. Computers and Security, 2018, 77, 578-594.	6.0	190
40	EclipseIoT: A secure and adaptive hub for the Internet of Things. Computers and Security, 2018, 78, 477-490.	6.0	24
41	Future developments in cyber risk assessment for the internet of things. Computers in Industry, 2018, 102, 14-22.	9.9	111
42	SCADA System Forensic Analysis Within IIoT. Springer Series in Advanced Manufacturing, 2017, , 73-101.	0.5	15
43	Determining and Sharing Risk Data in Distributed Interdependent Systems. Computer, 2017, 50, 72-79.	1.1	3
44	Towards an Ethical Framework for Publishing Twitter Data in Social Research: Taking into Account Users' Views, Online Context and Algorithmic Estimation. Sociology, 2017, 51, 1149-1168.	2.5	233
45	Can We Predict a Riot? Disruptive Event Detection Using Twitter. ACM Transactions on Internet Technology, 2017, 17, 1-26.	4.4	80
46	1st International Workshop on Search and Mining Terrorist Online Content & Advances in Data Science for Cyber Security and Risk on the Web. , 2017, , .		2
47	The Ethical Challenges of Publishing Twitter Data for Research Dissemination. , 2017, , .		36
48	Multi-class machine classification of suicide-related communication on Twitter. Online Social Networks and Media, 2017, 2, 32-44.	3.6	97
49	Automation of the supplier role in the GB power system using blockchain-based smart contracts. CIRED - Open Access Proceedings Journal, 2017, 2017, 2619-2623.	0.1	31
50	Chapter 2: Users' Views of Ethics in Social Media Research: Informed Consent, Anonymity, and Harm. Advances in Research Ethics and Integrity, 2017, , 27-52.	0.2	22
51	Digital wildfires. ACM SIGCAS Computers and Society, 2016, 45, 193-201.	0.1	14
52	Temporal TF-IDF: A High Performance Approach for Event Summarization in Twitter. , 2016, , .		14
53	Sensing Real-World Events Using Social Media Data and a Classification-Clustering Framework. , 2016, , .		1
54	A Cyber Forensic Taxonomy for SCADA Systems in Critical Infrastructure. Lecture Notes in Computer Science, 2016, , 27-39.	1.3	10

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55	Crime Sensing with Big Data: The Affordances and Limitations of using Open Source Communications to Estimate Crime Patterns. British Journal of Criminology, 2016, , azw031.	2.1	49
56	Digital Wildfires. ACM Transactions on Information Systems, 2016, 34, 1-23.	4.9	44
57	Us and them: identifying cyber hate on Twitter across multiple protected characteristics. EPJ Data Science, 2016, 5, 11.	2.8	219
58	140 characters to victory?: Using Twitter to predict the UK 2015 General Election. Electoral Studies, 2016, 41, 230-233.	1.7	139
59	Identifying cyber risk hotspots: A framework for measuring temporal variance in computer network risk. Computers and Security, 2016, 57, 31-46.	6.0	16
60	A review of cyber security risk assessment methods for SCADA systems. Computers and Security, 2016, 56, 1-27.	6.0	411
61	Cyberhate on Social Media in the aftermath of Woolwich: A Case Study in Computational Criminology and Big Data. British Journal of Criminology, 2016, 56, 211-238.	2.1	139
62	Analysing the connectivity and communication of suicidal users on twitter. Computer Communications, 2016, 73, 291-300.	5.1	103
63	Analyzing Hadoop power consumption and impact on application QoS. Future Generation Computer Systems, 2016, 55, 213-223.	7.5	30
64	The Response in Twitter to an Assisted Suicide in a Television Soap Opera. Crisis, 2016, 37, 392-395.	1.2	5
65	Cyber Hate Speech on Twitter: An Application of Machine Classification and Statistical Modeling for Policy and Decision Making. Policy and Internet, 2015, 7, 223-242.	4.3	385
66	Identifying Disruptive Events from Social Media to Enhance Situational Awareness. , 2015, , .		12
67	'Digital Wildfires'. , 2015, , .		1
68	Prediction of Malware Propagation and Links within Communities in Social Media Based Events. , 2015, , .		1
69	Who Tweets? Deriving the Demographic Characteristics of Age, Occupation and Social Class from Twitter User Meta-Data. PLoS ONE, 2015, 10, e0115545.	2.5	251
70	Real-time Classification of Malicious URLs on Twitter using Machine Activity Data. , 2015, , .		14
71	An Empirical Risk Management Framework for Monitoring Network Security. , 2015, , .		2
72	Assessing Data Breach Risk in Cloud Systems. , 2015, , .		7

#	ARTICLE	IF	CITATIONS
73	Feature Extraction and Analysis for Identifying Disruptive Events from Social Media. , 2015, , .		10
74	A classification framework for distinct cyber-attacks based on occurrence patterns. , 2015, , .		2
75	Machine Classification and Analysis of Suicide-Related Communication on Twitter. , 2015, , .		92
76	Detecting tension in online communities with computational Twitter analysis. Technological Forecasting and Social Change, 2015, 95, 96-108.	11.6	116
77	On the origin of PCDS “ (Probability consequence diagrams). Safety Science, 2015, 72, 229-239.	4.9	50
78	Arabic Event Detection in Social Media. Lecture Notes in Computer Science, 2015, , 384-401.	1.3	27
79	A Forensic Taxonomy of SCADA Systems and Approach to Incident Response. , 2015, , .		18
80	Big and broad social data and the sociological imagination: A collaborative response. Big Data and Society, 2014, 1, 205395171454513.	4.5	68
81	Analysing Security requirements in Cloud-based Service Level Agreements. , 2014, , .		2
82	Towards Real-Time Probabilistic Risk Assessment by Sensing Disruptive Events from Streamed News Feeds. , 2014, , .		0
83	Tweeting the terror: modelling the social media reaction to the Woolwich terrorist attack. Social Network Analysis and Mining, 2014, 4, 1.	2.8	156
84	Knowing the Tweeters: Deriving Sociologically Relevant Demographics from Twitter. Sociological Research Online, 2013, 18, 74-84.	1.1	139
85	Characterising the Power Consumption of Hadoop Clouds - A Social Media Analysis Case Study. , 2013, , .		1
86	A Naïve Bayes Approach to Classifying Topics in Suicide Notes. Biomedical Informatics Insights, 2012, 5s1, BII.S8945.	4.6	18
87	Self Protecting Data for De-perimeterised Information Sharing. , 2009, , .		9
88	MDSSF “ A Federated Architecture for Product Procurement. Lecture Notes in Computer Science, 2006, , 812-821.	1.3	3
89	Grid Based E-Procurement. , 2005, , 1.		0
90	Secure Virtual Organisations: Protocols and Requirements. , 2005, , 422-431.		1

#	ARTICLE	IF	CITATIONS
91	A Grid-Enabled Security Framework for Collaborative Virtual Organisations. , 2004, , 415-422.		0
92	140 Characters to Victory?: Using Twitter to Predict the UK 2015 General Election. SSRN Electronic Journal, 0, , .	0.4	11
93	Hate in the Machine: Anti-Black and Anti-Muslim Social Media Posts as Predictors of Offline Racially and Religiously Aggravated Crime. British Journal of Criminology, 0, , .	2.1	39
94	Private Lenders Demand for Audit. SSRN Electronic Journal, 0, , .	0.4	2