

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	A review of cyber security risk assessment methods for SCADA systems. Computers and Security, 2016, 56, 1-27.	6.0	411
2	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
3	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
4	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
5	Us and them: identifying cyber hate on Twitter across multiple protected characteristics. EPJ Data Science, 2016, 5, 11.	2.8	219
6	Early-stage malware prediction using recurrent neural networks. Computers and Security, 2018, 77, 578-594.	6.0	190
7	Tweeting the terror: modelling the social media reaction to the Woolwich terrorist attack. Social Network Analysis and Mining, 2014, 4, 1.	2.8	156
8	Knowing the Tweeters: Deriving Sociologically Relevant Demographics from Twitter. Sociological Research Online, 2013, 18, 74-84.	1.1	139
9	140 characters to victory?: Using Twitter to predict the UK 2015 General Election. Electoral Studies, 2016, 41, 230-233.	1.7	139
10	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
11	Detecting tension in online communities with computational Twitter analysis. Technological Forecasting and Social Change, 2015, 95, 96-108.	11.6	116
12	Future developments in cyber risk assessment for the internet of things. Computers in Industry, 2018, 102, 14-22.	9.9	111
13	Malware classification using self organising feature maps and machine activity data. Computers and Security, 2018, 73, 399-410.	6.0	104
14	Analysing the connectivity and communication of suicidal users on twitter. Computer Communications, 2016, 73, 291-300.	5.1	103
15	Multi-class machine classification of suicide-related communication on Twitter. Online Social Networks and Media, 2017, 2, 32-44.	3.6	97
16	Machine Classification and Analysis of Suicide-Related Communication on Twitter. , 2015, , .		92
17	Can We Predict a Riot? Disruptive Event Detection Using Twitter. ACM Transactions on Internet Technology, 2017, 17, 1-26.	4.4	80
18	Big and broad social data and the sociological imagination: A collaborative response. Big Data and Society, 2014, 1, 205395171454513.	4.5	68

#	ARTICLE	IF	CITATIONS
19	Cyberattacks and Countermeasures for In-Vehicle Networks. ACM Computing Surveys, 2022, 54, 1-37.	23.0	67
20	Cybersecurity of Industrial Cyber-Physical Systems: A Review. ACM Computing Surveys, 2022, 54, 1-35.	23.0	55
21	A Fuzzy Approach to Text Classification With Two-Stage Training for Ambiguous Instances. IEEE Transactions on Computational Social Systems, 2019, 6, 227-240.	4.4	53
22	On the origin of PCDS " (Probability consequence diagrams). Safety Science, 2015, 72, 229-239.	4.9	50
23	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
24	Digital Wildfires. ACM Transactions on Information Systems, 2016, 34, 1-23.	4.9	44
25	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
26	"The Enemy Among Us" ACM Transactions on the Web, 2019, 13, 1-26.	2.5	37
27	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
28	Challenges and performance metrics for security operations center analysts: a systematic review. Journal of Cyber Security Technology, 2020, 4, 125-152.	2.9	37
29	PharmaCrypt: Blockchain for Critical Pharmaceutical Industry to Counterfeit Drugs. Computer, 2020, 53, 29-44.	1.1	37
30	The Ethical Challenges of Publishing Twitter Data for Research Dissemination. , 2017, , .		36
31	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
32	Analyzing Hadoop power consumption and impact on application QoS. Future Generation Computer Systems, 2016, 55, 213-223.	7.5	30
33	Impact and Key Challenges of Insider Threats on Organizations and Critical Businesses. Electronics (Switzerland), 2020, 9, 1460.	3.1	30
34	Arabic Event Detection in Social Media. Lecture Notes in Computer Science, 2015, , 384-401.	1.3	27
35	Interaction and Transformation on Social Media: The Case of Twitter Campaigns. Social Media and Society, 2018, 4, 205630511775072.	3.0	25
36	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

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37	EclipseIoT: A secure and adaptive hub for the Internet of Things. Computers and Security, 2018, 78, 477-490.	6.0	24
38	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
39	Fuzzy Multi-task Learning for Hate Speech Type Identification. , 2019, , .		22
40	Antisemitism on Twitter: Collective Efficacy and the Role of Community Organisations in Challenging Online Hate Speech. Social Media and Society, 2020, 6, 205630512091685.	3.0	19
41	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. Safety in Extreme Environments, 2020, 2, 219-230.	3.1	19
42	A Naïve Bayes Approach to Classifying Topics in Suicide Notes. Biomedical Informatics Insights, 2012, 5s1, BII.S8945.	4.6	18
43	A Forensic Taxonomy of SCADA Systems and Approach to Incident Response. , 2015, , .		18
44	Identifying cyber risk hotspots: A framework for measuring temporal variance in computer network risk. Computers and Security, 2016, 57, 31-46.	6.0	16
45	SCADA System Forensic Analysis Within IIoT. Springer Series in Advanced Manufacturing, 2017, , 73-101.	0.5	15
46	Unsupervised Approach for Detecting Low Rate Attacks on Network Traffic with Autoencoder. , 2018, , .		15
47	Prediction of drive-by download attacks on Twitter. Information Processing and Management, 2019, 56, 1133-1145.	8.6	15
48	Real-time Classification of Malicious URLs on Twitter using Machine Activity Data. , 2015, , .		14
49	Digital wildfires. ACM SIGCAS Computers and Society, 2016, 45, 193-201.	0.1	14
50	Temporal TF-IDF: A High Performance Approach for Event Summarization in Twitter. , 2016, , .		14
51	Suspended Accounts: A Source of Tweets with Disgust and Anger Emotions for Augmenting Hate Speech Data Sample. , 2018, , .		14
52	Identifying Disruptive Events from Social Media to Enhance Situational Awareness. , 2015, , .		12
53	Privacy-Aware Cloud Ecosystems and GDPR Compliance. , 2019, , .		12
54	140 Characters to Victory?: Using Twitter to Predict the UK 2015 General Election. SSRN Electronic Journal, 0, , .	0.4	11

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55	Getting to the root of the problem: A detailed comparison of kernel and user level data for dynamic malware analysis. Journal of Information Security and Applications, 2019, 48, 102365.	2.5	11
56	Feature Extraction and Analysis for Identifying Disruptive Events from Social Media. , 2015, , .		10
57	A Cyber Forensic Taxonomy for SCADA Systems in Critical Infrastructure. Lecture Notes in Computer Science, 2016, , 27-39.	1.3	10
58	Social media forensics applied to assessment of post-incident social reaction: The case of the 2017 Manchester Arena terrorist attack. Forensic Science International, 2020, 313, 110364.	2.2	10
59	A three-tiered intrusion detection system for industrial control systems. Translational Research in Oral Oncology, 2021, 7, .	3.3	10
60	Self Protecting Data for De-perimeterised Information Sharing. , 2009, , .		9
61	A Configurable Dependency Model of a SCADA System for Goal-Oriented Risk Assessment. Applied Sciences (Switzerland), 2022, 12, 4880.	2.5	9
62	The Number and Characteristics of Newspaper and Twitter Reports on Suicides and Road Traffic Deaths in Young People. Archives of Suicide Research, 2019, 23, 507-522.	2.3	8
63	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
64	Assessing Data Breach Risk in Cloud Systems. , 2015, , .		7
65	LAB to SOC: Robust Features for Dynamic Malware Detection. , 2019, , .		7
66	Unsupervised Learning for Product Use Activity Recognition: An Exploratory Study of a "Chatty Device" Sensors, 2021, 21, 4991.	3.8	7
67	Are youth suicide memorial sites on Facebook different from those for other sudden deaths?. Death Studies, 2020, 44, 793-801.	2.7	6
68	Towards a Framework for Measuring the Performance of a Security Operations Center Analyst. , 2020, , .		6
69	BLATTA: Early Exploit Detection on Network Traffic with Recurrent Neural Networks. Security and Communication Networks, 2020, 2020, 1-15.	1.5	6
70	The Response in Twitter to an Assisted Suicide in a Television Soap Opera. Crisis, 2016, 37, 392-395.	1.2	5
71	Real-Time Malware Process Detection and Automated Process Killing. Security and Communication Networks, 2021, 2021, 1-23.	1.5	5
72	Chatty factories: a vision for the future of product design and manufacture with IoT. , 2019, , .		4

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73	Emotions Behind Drive-by Download Propagation on Twitter. ACM Transactions on the Web, 2020, 14, 1-26.	2.5	4
74	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
75	Determining and Sharing Risk Data in Distributed Interdependent Systems. Computer, 2017, 50, 72-79.	1.1	3
76	MDSSF â€œ A Federated Architecture for Product Procurement. Lecture Notes in Computer Science, 2006, , 812-821.	1.3	3
77	Risk assessment methods for converged IoT and SCADA systems: review and recommendations. , 2019, , .		3
78	Disrupting networks of hate: characterising hateful networks and removing critical nodes. Social Network Analysis and Mining, 2022, 12, 1.	2.8	3
79	Analysing Security requirements in Cloud-based Service Level Agreements. , 2014, , .		2
80	An Empirical Risk Management Framework for Monitoring Network Security. , 2015, , .		2
81	A classification framework for distinct cyber-attacks based on occurrence patterns. , 2015, , .		2
82	1st International Workshop on Search and Mining Terrorist Online Content & Advances in Data Science for Cyber Security and Risk on the Web. , 2017, , .		2
83	Security analytics for real-time forecasting of cyberattacks. Software - Practice and Experience, 2020, , .	3.6	2
84	â€œChatty Devicesâ€ and edge-based activity classification. Discover Internet of Things, 2021, 1, 1.	4.8	2
85	Private Lenders Demand for Audit. SSRN Electronic Journal, 0, , .	0.4	2
86	Optimized Predictive Control for AGC Cyber Resiliency. , 2021, , .		2
87	'Digital Wildfires'. , 2015, , .		1
88	Prediction of Malware Propagation and Links within Communities in Social Media Based Events. , 2015, , .		1
89	Sensing Real-World Events Using Social Media Data and a Classification-Clustering Framework. , 2016, , .		1
90	Secure Virtual Organisations: Protocols and Requirements. , 2005, , 422-431.		1

#	ARTICLE	IF	CITATIONS
91	Characterising the Power Consumption of Hadoop Clouds - A Social Media Analysis Case Study. , 2013, , .		1
92	A Grid-Enabled Security Framework for Collaborative Virtual Organisations. , 2004, , 415-422.		0
93	Grid Based E-Procurement. , 2005, , 1.		0
94	Towards Real-Time Probabilistic Risk Assessment by Sensing Disruptive Events from Streamed News Feeds. , 2014, , .		0