Francesco Palmieri

List of Publications by Year
in descending order

149 papers	**3,258** citations	159585 **30** h-index	197818 **49** g-index
153 all docs	**153** docs citations	**153** times ranked	**3015** citing authors

#	Article	IF	Citations
1	Network anomaly detection with the restricted Boltzmann machine. Neurocomputing, 2013, 122, 13-23.	5.9	295
2	Smart Cloud Storage Service Selection Based on Fuzzy Logic, Theory of Evidence and Game Theory. IEEE Transactions on Computers, 2016, 65, 2348-2362.	3.4	138
3	A scalable distributed machine learning approach for attack detection in edge computing environments. Journal of Parallel and Distributed Computing, 2018, 119, 18-26.	4.1	103
4	Cloud-based adaptive compression and secure management services for 3D healthcare data. Future Generation Computer Systems, 2015, 43-44, 120-134.	7.5	96
5	GGA: A modified genetic algorithm with gradient-based local search for solving constrained optimization problems. Information Sciences, 2021, 547, 136-162.	6.9	95
6	A knowledge-based platform for Big Data analytics based on publish/subscribe services and stream processing. Knowledge-Based Systems, 2015, 79, 3-17.	7.1	83
7	Interconnecting Federated Clouds by Using Publish-Subscribe Service. Cluster Computing, 2013, 16, 887-903.	5.0	74
8	Network anomaly detection through nonlinear analysis. Computers and Security, 2010, 29, 737-755.	6.0	73
9	Security, Privacy and Trust for Smart Mobile- Internet of Things (M-IoT): A Survey. IEEE Access, 2020, 8, 167123-167163.	4.2	70
10	A distributed approach to network anomaly detection based on independent component analysis. Concurrency Computation Practice and Experience, 2014, 26, 1113-1129.	2.2	66
11	Energy-oriented denial of service attacks: an emerging menace for large cloud infrastructures. Journal of Supercomputing, 2015, 71, 1620-1641.	3.6	61
12	Developing a trust model for pervasive computing based on Apriori association rules learning and Bayesian classification. Soft Computing, 2017, 21, 6297-6315.	3.6	61
13	A cloud-based architecture for emergency management and first responders localization in smart city environments. Computers and Electrical Engineering, 2016, 56, 810-830.	4.8	58
14	An uncertainty-managing batch relevance-based approach to network anomaly detection. Applied Soft Computing Journal, 2015, 36, 408-418.	7.2	57
15	Exploiting mean field analysis to model performances of big data architectures. Future Generation Computer Systems, 2014, 37, 203-211.	7.5	56
16	A nonlinear, recurrence-based approach to traffic classification. Computer Networks, 2009, 53, 761-773.	5.1	55
17	Modeling energy-efficient secure communications in multi-mode wireless mobile devices. Journal of Computer and System Sciences, 2015, 81, 1464-1478.	1.2	47
18	Hierarchical and Shared Access Control. IEEE Transactions on Information Forensics and Security, 2016, 11, 850-865.	6.9	43

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19	A distributed scheduling framework based on selfish autonomous agents for federated cloud environments. Future Generation Computer Systems, 2013, 29, 1461-1472.	7.5	42
20	A triadic closure and homophily-based recommendation system for online social networks. World Wide Web, 2015, 18, 1579-1601.	4.0	39
21	Scalable service discovery in ubiquitous and pervasive computing architectures: A percolation-driven approach. Future Generation Computer Systems, 2013, 29, 693-703.	7.5	38
22	An energy-aware dynamic RWA framework for next-generation wavelength-routed networks. Computer Networks, 2012, 56, 2420-2442.	5.1	37
23	Hybrid indoor and outdoor location services for new generation mobile terminals. Personal and Ubiquitous Computing, 2014, 18, 271-285.	2.8	37
24	One-pass lossless data hiding and compression of remote sensing data. Future Generation Computer Systems, 2019, 90, 222-239.	7.5	37
25	A study on forecasting electricity production and consumption in smart cities and factories. International Journal of Information Management, 2019, 49, 546-556.	17.5	37
26	Detecting unfair recommendations in trust-based pervasive environments. Information Sciences, 2019, 486, 31-51.	6.9	36
27	A Fraud-Resilient Blockchain-Based Solution for Invoice Financing. IEEE Transactions on Engineering Management, 2020, 67, 1086-1098.	3.5	35
28	Evaluating Network-Based DoS Attacks under the Energy Consumption Perspective: New Security Issues in the Coming Green ICT Area. , 2011, , .		34
29	Energy-Aware RWA for WDM Networks with Dual Power Sources. , 2011, , .		34
30	An asynchronous covert channel using spam. Computers and Mathematics With Applications, 2012, 63, 437-447.	2.7	34
31	Saving Energy in Data Center Infrastructures. , 2011, , .		33
32	GRASP-based resource re-optimization for effective big data access in federated clouds. Future Generation Computer Systems, 2016, 54, 168-179.	7.5	33
33	A Cluster-Based Multidimensional Approach for Detecting Attacks on Connected Vehicles. IEEE Internet of Things Journal, 2021, 8, 12518-12527.	8.7	31
34	Association rule-based malware classification using common subsequences of API calls. Applied Soft Computing Journal, 2021, 105, 107234.	7.2	31
35	Towards a federated Metropolitan Area Grid environment: The SCoPE network-aware infrastructure. Future Generation Computer Systems, 2010, 26, 1241-1256.	7.5	30
36	Introducing Fraudulent Energy Consumption in Cloud Infrastructures: A New Generation of Denial-of-Service Attacks. IEEE Systems Journal, 2017, 11, 460-470.	4.6	30

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37	Modeling performances of concurrent big data applications. Software - Practice and Experience, 2015, 45, 1127-1144.	3.6	29
38	On the detection of card-sharing traffic through wavelet analysis and Support Vector Machines. Applied Soft Computing Journal, 2013, 13, 615-627.	7.2	28
39	A botnet-based command and control approach relying on swarm intelligence. Journal of Network and Computer Applications, 2014, 38, 22-33.	9.1	28
40	Modeling security requirements for cloud–based system‰development. Concurrency Computation Practice and Experience, 2015, 27, 2107-2124.	2.2	28
41	Network-aware scheduling for real-time execution support in data-intensive optical Grids. Future Generation Computer Systems, 2009, 25, 794-803.	7.5	26
42	FeelTrust: Providing Trustworthy Communications in Ubiquitous Mobile Environment. , 2013, , .		26
43	Providing true end-to-end security in converged voice over IP infrastructures. Computers and Security, 2009, 28, 433-449.	6.0	25
44	Secure and distributed video surveillance via portable devices. Journal of Ambient Intelligence and Humanized Computing, 2014, 5, 205-213.	4.9	25
45	Trust management for distributed heterogeneous systems by using linguistic term sets and hierarchies, aggregation operators and mechanism design. Future Generation Computer Systems, 2017, 74, 325-336.	7.5	25
46	Leaf: An open-source cybersecurity training platform for realistic edge-IoT scenarios. Journal of Systems Architecture, 2019, 97, 107-129.	4.3	24
47	Towards an energy-aware Internet: modeling a cross-layer optimization approach. Telecommunication Systems, 2013, 52, 1247.	2.5	23
48	On Secure Data Management in Health-Care Environment. , 2013, , .		23
49	Invisible CAPPCHA: A usable mechanism to distinguish between malware and humans on the mobile IoT. Computers and Security, 2018, 78, 255-266.	6.0	23
50	Analyzing Local Strategies for Energy-Efficient Networking. Lecture Notes in Computer Science, 2011, , 291-300.	1.3	23
51	An Energy-Aware Framework for Reliable and Secure End-to-End Ubiquitous Data Communications. , 2013, , .		22
52	An MPLS-based architecture for scalable QoS and traffic engineering in converged multiservice mobile IP networks. Computer Networks, 2005, 47, 257-269.	5.1	21
53	An HLA–based framework for simulation of large–scale critical systems. Concurrency Computation Practice and Experience, 2016, 28, 400-419.	2.2	21
54	Text Compression and Encryption through Smart Devices for Mobile Communication. , 2013, , .		19

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55	A data-driven approximate dynamic programming approach based on association rule learning: Spacecraft autonomy as a case study. Information Sciences, 2019, 504, 501-519.	6.9	19
56	GMPLS-based service differentiation for scalable QoS support in all-optical Grid applications. Future Generation Computer Systems, 2006, 22, 688-698.	7.5	18
57	E-mail-Based Covert Channels for Asynchronous Message Steganography. , 2011, , .		17
58	Automated extraction of fragments of Bayesian networks from textual sources. Applied Soft Computing Journal, 2017, 60, 508-519.	7.2	17
59	Low-Resource Footprint, Data-Driven Malware Detection on Android. IEEE Transactions on Sustainable Computing, 2020, 5, 213-222.	3.1	17
60	Distributed temporal link prediction algorithm based on label propagation. Future Generation Computer Systems, 2019, 93, 627-636.	7.5	16
61	A Cluster-Based Data-Centric Model for Network-Aware Task Scheduling in Distributed Systems. International Journal of Parallel Programming, 2014, 42, 755-775.	1.5	15
62	An Artificial Intelligence-Based Trust Model for Pervasive Computing. , 2015, , .		15
63	Bayesian resource discovery in infrastructure-less networks. Information Sciences, 2017, 376, 95-109.	6.9	15
64	Countering Browser Fingerprinting Techniques: Constructing a Fake Profile with Google Chrome. , 2014, , .		13
65	Exploiting Battery-Drain Vulnerabilities in Mobile Smart Devices. IEEE Transactions on Sustainable Computing, 2017, 2, 90-99.	3.1	13
66	Information theoretic€based detection and removal of slander and/or false€praise attacks for robust trust management with Dempster€Shafer combination of linguistic fuzzy terms. Concurrency Computation Practice and Experience, 2018, 30, e4302.	2.2	13
67	Containing large-scale worm spreading in the Internet by cooperative distribution of traffic filtering policies. Computers and Security, 2008, 27, 48-62.	6.0	12
68	An intelligent security architecture for distributed firewalling environments. Journal of Ambient Intelligence and Humanized Computing, 2013, 4, 223-234.	4.9	12
69	Adaptive Stealth Energy-Related DoS Attacks against Cloud Data Centers. , 2014, , .		12
70	A secure file sharing service for distributed computing environments. Journal of Supercomputing, 2014, 67, 691-710.	3.6	12
71	On the Protection of fMRI Images in Multi-domain Environments. , 2015, , .		12
72	A honeypot system with honeyword-driven fake interactive sessions. , 2015, , .		12

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73	Securing PIN‐based authentication in smartwatches with just two gestures. Concurrency Computation Practice and Experience, 2020, 32, e5549.	2.2	12
74	Towards a Lawfully Secure and Privacy Preserving Video Surveillance System. Lecture Notes in Business Information Processing, 2010, , 73-84.	1.0	12
75	New Steganographic Techniques for the OOXML File Format. Lecture Notes in Computer Science, 2011, , 344-358.	1.3	12
76	A GRASP-based network re-optimization strategy for improving RWA in multi-constrained optical transport infrastructures. Computer Communications, 2010, 33, 1809-1822.	5.1	11
77	Multimedia-based battery drain attacks for Android devices. , 2014, , .		11
78	An Efficient and Transparent One-Time Authentication Protocol with Non-interactive Key Scheduling and Update. , 2014, , .		11
79	Using bivariate polynomial to design a dynamic key management scheme for wireless sensor networks. Computer Science and Information Systems, 2013, 10, 589-609.	1.0	11
80	Selfish routing and wavelength assignment strategies with advance reservation in inter-domain optical networks. Computer Communications, 2012, 35, 366-379.	5.1	10
81	Modeling energy consumption in next-generation wireless access-over-WDM networks with hybrid power sources. Mathematical and Computer Modelling, 2013, 58, 1389-1404.	2.0	10
82	Energy efficiency of elastic frequency grids in multilayer IP/MPLS-over-flexgrid networks. Journal of Network and Computer Applications, 2015, 56, 41-47.	9.1	10
83	The Integration of 3D Modeling and Simulation to Determine the Energy Potential of Low-Temperature Geothermal Systems in the Pisa (Italy) Sedimentary Plain. Energies, 2018, 11, 1591.	3.1	10
84	A machine learning evolutionary algorithm-based formula to assess tumor markers and predict lung cancer in cytologically negative pleural effusions. Soft Computing, 2020, 24, 7281-7293.	3.6	10
85	PERMS: An efficient rescue route planning system in disasters. Applied Soft Computing Journal, 2021, 111, 107667.	7.2	10
86	A Secure Distributed Video Surveillance System Based on Portable Devices. Lecture Notes in Computer Science, 2012, , 403-415.	1.3	10
87	Evaluating energy savings in WoL-enabled networks of PCs. , 2013, , .		9
88	Using Screen Brightness to Improve Security in Mobile Social Network Access. IEEE Transactions on Dependable and Secure Computing, 2016, , 1-1.	5.4	9
89	A hybrid load-balancing and energy-aware RWA algorithm for telecommunication networks. Computer Communications, 2016, 77, 85-99.	5.1	9
90	Compression‐based steganography. Concurrency Computation Practice and Experience, 2020, 32, e5322.	2.2	9

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91	A combination of clustering-based under-sampling with ensemble methods for solving imbalanced class problem in intelligent systems. Technological Forecasting and Social Change, 2021, 169, 120796.	11.6	9
92	Analyzing the Internet Stability in Presence of Disasters. Lecture Notes in Computer Science, 2013, , 253-268.	1.3	9
93	Percolation-based routing in the Internet. Journal of Systems and Software, 2012, 85, 2559-2573.	4.5	8
94	Device Tracking in Private Networks via NAPT Log Analysis. , 2012, , .		8
95	A Blind Signature-Based Approach for Cross-Domain Authentication in the Cloud Environment. International Journal of Data Warehousing and Mining, 2016, 12, 34-48.	0.6	8
96	A genetic approach for the maximum network lifetime problem with additional operating time slot constraints. Soft Computing, 2020, 24, 14735-14741.	3.6	8
97	A stacked autoencoder–based convolutional and recurrent deep neural network for detecting cyberattacks in interconnected power control systems. International Journal of Intelligent Systems, 2021, 36, 7080-7102.	5.7	8
98	Secure and reliable data communication in developing regions and rural areas. Pervasive and Mobile Computing, 2015, 24, 117-128.	3.3	7
99	Securing visual search queries in ubiquitous scenarios empowered by smart personal devices. Information Sciences, 2020, 508, 393-404.	6.9	7
100	Energy-Oriented Models for WDM Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 534-548.	0.3	7
101	A Minimum Cut Interference-based Integrated RWA Algorithm for Multi-constrained Optical Transport Networks. Journal of Network and Systems Management, 2008, 16, 421-448.	4.9	6
102	SimulNet: a wavelength-routed optical network simulation framework. , 2009, , .		6
103	Electricity production and consumption modeling through fuzzy logic. International Journal of Intelligent Systems, 2022, 37, 8348-8364.	5.7	6
104	An Enhanced Firewall Scheme for Dynamic and Adaptive Containment of Emerging Security Threats. , 2010, , .		5
105	Format-Independent Protection of DNA Microarray Images. , 2015, , .		5
106	An energy–aware engineered control plane for wavelength–routed networks. Transactions on Emerging Telecommunications Technologies, 2015, 26, 231-249.	3.9	5
107	Saving energy in aggressive intrusion detection through dynamic latency sensitivity recognition. Computers and Security, 2018, 76, 311-326.	6.0	5
108	On the optimal tuning and placement of FEC codecs within multicasting trees for resilient publish/subscribe services in edge-IoT architectures. Future Generation Computer Systems, 2018, 88, 140-150.	7.5	5

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109	Vehicle-to-Everything (V2X) Communication Scenarios for Vehicular Ad-hoc Networking (VANET): AnÂOverview. Lecture Notes in Computer Science, 2021, , 15-30.	1.3	5
110	Optimal control of system governed by nonlinear volterra integral and fractional derivative equations. Computational and Applied Mathematics, 2021, 40, 1.	2.2	5
111	Swarm-based Distributed Job Scheduling in Next-Generation Grids. , 2007, , 137-143.		5
112	A Fault Avoidance Strategy Improving the Reliability of the EGI Production Grid Infrastructure. Lecture Notes in Computer Science, 2010, , 159-172.	1.3	5
113	Automated detection and containment of worms and viruses into heterogeneous networks: a simple network immune system. International Journal of Wireless and Mobile Computing, 2007, 2, 47.	0.2	4
114	Heterogeneous Network Handover Using 3GPP ANDSF. , 2015, , .		4
115	A Multiobjective Wavelength Routing Approach Combining Network and Traffic Engineering With Energy Awareness. IEEE Systems Journal, 2017, 11, 2410-2421.	4.6	4
116	Layered multicast for reliable event notification over large-scale networks. Information Sciences, 2017, 379, 177-194.	6.9	4
117	Towards Service Orchestration Between Smart Grids and Telecom Networks. Lecture Notes in Computer Science, 2013, , 300-309.	1.3	4
118	Constrained minimum lightpath affinity routing in multi-layer optical transport networks. Journal of High Speed Networks, 2010, 17, 185-205.	0.8	3
119	Towards Energy-Oriented Telecommunication Networks. , 2013, , 491-512.		3
120	Eco-sustainable routing in optical networks. Photonic Network Communications, 2013, 26, 140-149.	2.7	3
121	Green Data center Infrastructures in the Cloud Computing Era. , 2013, , 267-293.		3
122	A Game-Theoretic Approach to Network Embedded FEC over Large-Scale Networks. Communications in Computer and Information Science, 2016, , 353-364.	0.5	3
123	Vulsploit: A Module for Semi-automatic Exploitation of Vulnerabilities. Lecture Notes in Computer Science, 2020, , 89-103.	1.3	3
124	Insights into peer to peer traffic through nonlinear analysis. , 2010, , .		2
125	Comparison Between Protein-Protein Interaction Networks CD4$$^+$$T and CD8$$^+$$T and a Numerical Approach for Fractional HIV Infection of CD4$$^{+}$$T Cells. Lecture Notes in Computer Science, 2021, , 78-94.	1.3	2
126	Large Scale Voice over IP Experiences on High Performance Intranets. Lecture Notes in Computer Science, 2006, , 355-366.	1.3	2

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127	Network-Aware Replica Optimization in the SCoPE Grid Infrastructure. Lecture Notes in Computer Science, 2008, , 845-857.	1.3	2
128	Percolation-Based Replica Discovery in Peer-to-Peer Grid Infrastructures. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 45-56.	0.3	2
129	Effectiveness ofÂVideo-Classification inÂAndroid Malware Detection Through API-Streams andÂCNN-LSTM Autoencoders. Communications in Computer and Information Science, 2022, , 171-194.	0.5	2
130	Innovative Mobile Internet Services and Applications. Mobile Information Systems, 2015, 2015, 1-2.	0.6	1
131	Supporting First Responders Localization during Crisis Management. , 2015, , .		1
132	Novel Insider Threat Techniques. , 2015, , .		1
133	The untrusted handover security of the S-PMIPv6 on LTE-A. , 2015, , .		1
134	A machine learningâ€based memory forensics methodology for TOR browser artifacts. Concurrency Computation Practice and Experience, 2020, , e5935.	2.2	1
135	On the undetectability of payloads generated through automatic tools: A humanâ€oriented approach. Concurrency Computation Practice and Experience, 2021, 33, e6351.	2.2	1
136	Fully Distributed Secure Video Surveillance Via Portable Device with User Awareness. Lecture Notes in Computer Science, 2013, , 414-429.	1.3	1
137	Advances in Security and Privacy in Sensor Networks. International Journal of Distributed Sensor Networks, 2014, 10, 956265.	2.2	1
138	A Wide Area Network Optimization Service for Effective Access to Heterogeneous DataGrid Infrastructures. , 2010, , 137-147.		1
139	Ensuring Privacy and Confidentiality in Digital Video Surveillance Systems. , 2012, , 245-267.		1
140	Dynamic Network Optimization for Effective Qos Support in Large Grid Infrastructures. , 0, , 28-45.		1
141	Characterizing and Classifying Card-Sharing Traffic through Wavelet Analysis. , 2011, , .		0
142	On the Optimization of GLite-Based Job Submission. Journal of Physics: Conference Series, 2011, 331, 062041.	0.4	0
143	A perspective of the journal's life in the last three years. Journal of High Speed Networks, 2014, 20, 193-193.	0.8	0
144	On Reliability and Security in Knowledge Grids. , 2014, , .		0

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145	Human oriented solutions for intelligent analysis, multimedia and communication systems. Concurrency Computation Practice and Experience, 2021, 33, e6532.	2.2	0
146	Dynamic Layer-2 VPN Services for Improving Security in the Grid Environment. Lecture Notes in Computer Science, 2006, , 45-59.	1.3	0
147	Managing Network-Aware Grid Services on Metropolitan Scale: The SCoPE Experience. Lecture Notes in Computer Science, 2009, , 78-90.	1.3	0
148	A Converged Charging Framework for Mobile Voice and Data Applications. Journal of Networks, 2009, 4, .	0.4	0
149	Dealing with Reliable Event-Based Communications by Means of Layered Multicast. Lecture Notes in Computer Science, 2015, , 572-581.	1.3	0