Evangelos Pallis

List of Publications by Year
in descending order

136 papers	2,118 citations	393982 19 h-index	360668 35 g-index
140 all docs	140 docs citations	140 times ranked	1775 citing authors

#	Article	IF	Citations
1	A Survey on the Internet of Things (IoT) Forensics: Challenges, Approaches, and Open Issues. IEEE Communications Surveys and Tutorials, 2020, 22, 1191-1221.	24.8	455
2	Computing, Caching, and Communication at the Edge: The Cornerstone for Building a Versatile 5G Ecosystem. , 2017, 55, 152-157.		74
3	T-NOVA: A marketplace for virtualized network functions. , 2014, , .		72
4	A prototype cognitive radio architecture for TVWS exploitation under the real time secondary spectrum market policy. Physical Communication, 2014, 10, 159-168.	1.2	62
5	A resource intensive traffic-aware scheme using energy-aware routing in cognitive radio networks. Future Generation Computer Systems, 2014, 39, 16-28.	4.9	60
6	EXEGESIS: Extreme Edge Resource Harvesting for a Virtualized Fog Environment. , 2017, 55, 173-179.		55
7	A Fog-Based Emergency System for Smart Enhanced Living Environments. IEEE Cloud Computing, 2016, 3, 54-62.	5.3	50
8	Efficient Next Generation Emergency Communications over Multi-Access Edge Computing. IEEE Communications Magazine, 2017, 55, 92-97.	4.9	50
9	Big Data and Cloud Computing: A Survey of the State-of-the-Art and Research Challenges. Studies in Big Data, 2017, , 23-41.	0.8	43
10	An energy-aware scheme for efficient spectrum utilization in a 5G mobile cognitive radio network architecture. Telecommunication Systems, 2015, 59, 63-75.	1.6	39
11	Efficient entertainment services provision over a novel network architecture. IEEE Wireless Communications, 2016, 23, 14-21.	6.6	36
12	Artificial Intelligence and Blockchain-Assisted Offloading Approach for Data Availability Maximization in Edge Nodes. IEEE Transactions on Vehicular Technology, 2021, 70, 2404-2412.	3.9	36
13	Proteinaceous methanotrophs for feed additive using biowaste as carbon and nutrients source. Bioresource Technology, 2020, 313, 123646.	4.8	33
14	On the performance response of delay-bounded energy-aware bandwidth allocation scheme in wireless networks. , 2013, , .		31
15	Socially Oriented Edge Computing for Energy Awareness in IoT Architectures. IEEE Communications Magazine, 2018, 56, 139-145.	4.9	30
16	Efficient radio resource management algorithms in opportunistic cognitive radio networks. Transactions on Emerging Telecommunications Technologies, 2014, 25, 785-797.	2.6	29
17	Energy efficient resource sharing using a traffic€oriented routing scheme for cognitive radio networks. IET Networks, 2014, 3, 54-63.	1.1	28
18	Predicting and quantifying the technical debt in cloud software engineering. , 2014, , .		27

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19	Resource usage prediction for optimal and balanced provision of multimedia services. , 2014, , .		27
20	Resource usage prediction algorithms for optimal selection of multimedia content delivery methods. , 2015, , .		27
21	Case study of a dimmable outdoor lighting system with intelligent management and remote control. , 2012, , .		26
22	EMYNOS: Next Generation Emergency Communication. IEEE Communications Magazine, 2017, 55, 139-145.	4.9	26
23	Towards a Machine Learning Based Situational Awareness Framework for Cybersecurity: An SDN Implementation. Sensors, 2021, 21, 4939.	2.1	25
24	Performance evaluation of dynamic cloud resource migration based on temporal and capacity-aware policy for efficient resource sharing. , 2013, , .		24
25	A Fusion IP/DVB Networking Environment for Providing Always-On Connectivity and Triple-Play Services to Urban and Rural Areas. IEEE Network, 2007, 21, 21-27.	4.9	23
26	Context-oriented opportunistic cloud offload processing for energy conservation in wireless devices. , 2014, , .		23
27	A Hardware Acceleration Platform for AI-Based Inference at the Edge. Circuits, Systems, and Signal Processing, 2020, 39, 1059-1070.	1.2	23
28	QoS provisioning and policy management in a broker-based CR network architecture. , 2012, , .		22
29	Vulnerability assessment as a service for fog-centric ICT ecosystems: A healthcare use case. Peer-to-Peer Networking and Applications, 2019, 12, 1216-1224.	2.6	22
30	Joint energy and delay-aware scheme for 5G mobile cognitive radio networks. , 2014, , .		21
31	Digital switchover in UHF: the ATHENA concept for broadband access. European Transactions on Telecommunications, 2006, 17, 175-182.	1.2	20
32	Real-time TVWS trading based on a centralized CR network architecture. , 2011, , .		17
33	Acceleration at the Edge for Supporting SMEs Security: The FORTIKA Paradigm. IEEE Communications Magazine, 2019, 57, 41-47.	4.9	17
34	Tracking vital signs of a patient using channel state information and machine learning for a smart healthcare system. Neural Computing and Applications, 0, , 1.	3.2	17
35	Shot boundary detection without threshold parameters. Journal of Electronic Imaging, 2006, 15, 020503.	0.5	15
36	Radio resource management algorithms for efficient QoS provisioning over cognitive radio networks. , 2013, , .		15

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37	Towards the evaluation of a big data-as-a-service model: A decision theoretic approach. , 2016, , .		15
38	Modified Machine Learning Techique for Curve Fitting on Regression Models for COVID-19 projections. , 2020, , .		15
39	Quantifying and evaluating the technical debt on mobile cloud-based service level. , 2016, , .		15
40	A centralised broker-based CR network architecture for TVWS exploitation under the RTSSM policy. , 2012, , .		14
41	Maximizing energy conservation in a centralized cognitive radio network architecture. , 2013, , .		14
42	Resource Management in Mobile Computing Environments. Modeling and Optimization in Science and Technologies, 2014, , .	0.7	14
43	Cross-layer monitoring in IPTV networks. , 2012, 50, 76-84.		12
44	Real-time performance evaluation of F-BTD scheme for optimized QoS energy conservation in wireless devices. , 2013, , .		12
45	An energy-efficient routing scheme using Backward Traffic Difference estimation in cognitive radio networks. , 2013, , .		12
46	MPEG-DASH users' QoE: The segment duration effect. , 2015, , .		12
47	A mixed reality 3D system for the integration of X3DoM graphics with real-time IoT data. Multimedia Tools and Applications, 2018, 77, 4731-4752.	2.6	12
48	Elasticity Debt Analytics Exploitation for Green Mobile Cloud Computing: An Equilibrium Model. IEEE Transactions on Green Communications and Networking, 2019, 3, 122-131.	3.5	12
49	A DVB/IP QoS aware Backhaul Networking Environment. Wireless Personal Communications, 2010, 52, 637-649.	1.8	11
50	Security Assessment as a Service Cross-Layered System for the Adoption of Digital, Personalised and Trusted Healthcare. , 2019, , .		11
51	Towards an optimized security approach to IoT devices with confidential healthcare data exchange. Multimedia Tools and Applications, 2021, 80, 31435-31449.	2.6	11
52	On Analyzing Beamforming Implementation in O-RAN 5G. Electronics (Switzerland), 2021, 10, 2162.	1.8	11
53	A radio resource management framework for opportunistic TVWS access. , 2012, , .		10
54	A radio resource management framework for TVWS exploitation under the RTSSM policy. , 2012, , .		10

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55	A dynamic spectrum management framework for efficient TVWS exploitation. , 2012, , .		10
56	Joint assessment of Network- and Perceived-QoS in video delivery networks. Telecommunication Systems, 2012, 49, 75-84.	1.6	10
57	Performance analysis of reactive routing protocols in Mobile Ad hoc Networks. , 2014, , .		10
58	Experimental Infrastructures for IP/DVB Convergence: an Actual Substantiation for Triple Play Services Provision at Remote Areas. , 2007, , .		9
59	A spectrum aware routing protocol for public safety applications over cognitive radio networks. , 2012, , .		9
60	Optimizing radio resource management in energy-efficient cognitive radio networks. , 2013, , .		9
61	Virtual Network Functions exploitation through a prototype resource management framework. , 2014, , .		9
62	Performance analysis of a rate-adaptive bandwidth allocation scheme in 5G mobile networks. , 2015, , .		9
63	Media Ecosystems: A Novel Approach for Content-Awareness in Future Networks. Lecture Notes in Computer Science, 2011, , 369-380.	1.0	8
64	Joint Radio Resource Management in Cognitive Networks. Advances in Wireless Technologies and Telecommunication Book Series, 2013, , 50-80.	0.3	8
65	Exploiting Digital Switchover for Broadband Services Access in Rural Areas. Journal of Communications, 2006, 1, .	1.3	8
66	Exploiting Peer-to-Peer Technology for Network and Resource Management in Interactive Broadcasting Environments. , 2010, , .		7
67	A spectrum aware routing protocol for ad-hoc cognitive radio networks. , 2012, , .		7
68	Composting as a Service: A Real-World IoT Implementation. Future Internet, 2018, 10, 107.	2.4	7
69	A virtual network functions brokering mechanism. , 2016, , .		6
70	An NF V-powered emergency system for smart enhanced living environments. , 2017, , .		6
71	Survey on Technologies for Enabling Real-Time Communication in the Web of Things. Internet of Things, 2017, , 323-339.	1.3	6
72	Traffic-Based S-MAC. International Journal of Wireless Networks and Broadband Technologies, 2015, 4, 62-80.	1.0	6

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73	Robust Encryption to Enhance IoT Confidentiality for Healthcare Ecosystems. , 2021, , .		6
74	A preliminary implementation of a Content-Aware network node. , 2011, , .		5
75	Energy-Efficient Routing in Cognitive Radio Networks. Modeling and Optimization in Science and Technologies, 2014, , 323-340.	0.7	5
76	On the perceived quality evaluation of opportunistic Mobile P2P Scalable Video streaming. , 2015, , .		5
77	Retransmission-based Successful Delivery Tuning in Damaged Critical Infrastructures for VANETs. , 2020, , .		5
78	Energy and Resource Consumption Evaluation of Mobile Cognitive Radio Devices. Modeling and Optimization in Science and Technologies, 2014, , 359-388.	0.7	5
79	Evaluation of the COVID-19 Era by Using Machine Learning and Interpretation of Confidential Dataset. Electronics (Switzerland), 2021, 10, 2910.	1.8	5
80	Dynamic IP configuration of terminals in broadcasting networks. Computer Networks, 2008, 52, 292-302.	3.2	4
81	Media Ecosystem deployment in a content-aware Future Internet architecture. , 2011, , .		4
82	Optimised network resource exploitation in interactive broadcasting environments via P2P constellations. , 2012, , .		4
83	Energy-efficient management using a traffic-oriented routing scheme for cognitive radio networks. International Journal of Network Management, 2015, 25, 418-434.	1.4	4
84	Edge Caching Architecture for Media Delivery over P2P Networks. , 2018, , .		4
85	IoT cloud-based framework using of smart integration to control the spread of COVID-19. , 2021, , .		4
86	Using Traffic Diversities for Scheduling Wireless Interfaces for Energy Harvesting in Wireless Devices. Modeling and Optimization in Science and Technologies, 2014, , 481-496.	0.7	4
87	A Social-Oriented Mobile Cloud Scheme for Optimal Energy Conservation. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2015, , 97-121.	0.5	4
88	Intelligent Reflecting Surface Aided Wireless Systems with Imperfect Hardware. Electronics (Switzerland), 2022, 11, 900.	1.8	4
89	The new interconnecting television: an alternative approach to next generation broadband networking. , 2003, , .		3
90	An MPLS-DiffServ experimental core network infrastructure for E2E QoS content delivery. , 2008, , .		3

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91	QoE fairness, HTTP Adaptive Streaming and IDVB-T: The AWM approach. , 2014, , .		3
92	Context awareness location-based Android application for tracking purposes in assisted living. , 2016, , .		3
93	Towards a next generation 112 testbed: The EMYNOS ESInet. International Journal of Critical Infrastructure Protection, 2018, 22, 39-50.	2.9	3
94	Intelligent Vehicular Networking Protocols. Internet of Things, 2020, , 59-86.	1.3	3
95	Design and Optimization of Wideband Log-Periodic Dipole Arrays under Requirements for High Gain, High Front-to-Back Ratio, Optimal Gain Flatness, and Low Side Lobe Level: The Application of Invasive Weed Optimization. , 2015, , 21-61.		3
96	A Resource Prediction Engine for Efficient Multimedia Services Provision. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2015, , 361-380.	0.5	3
97	Medical Image Watermarking in Four Levels Decomposition of DWT Using Multiple Wavelets in IoT Emergence. Internet of Things, 2020, , 15-31.	1.3	3
98	ATHENA: a large-scale testbed for the next generation of interoperable networks and services. , 2006, , .		2
99	TV White Spaces exploitation utilizing a Cognitive Radio system based on DVB-H. , 2011, , .		2
100	Enhancing legacy infrastructures with content-aware enablers towards a networked-media platform. , 2011, , .		2
101	Distributed NQoS provision in interactive DVB-T systems. , 2012, , .		2
102	Measurements on Modern Wireless Communication Technologies and Estimation of Human Exposure. Modeling and Optimization in Science and Technologies, 2014, , 115-130.	0.7	2
103	On the Efficiency Evaluation of a Novel Scheme Based on Daubechies Wavelet for Watermarking in 5G. , 2018, , .		2
104	Elasticity Debt Analytics Exploitation for Green Mobile Cloud Computing: An Equilibrium Model. , 2018, , .		2
105	Successful Delivery in VANETs with Damaged Infrastructures Based on Double Cluster Head Selection. , 2020, , .		2
106	Enabling Full-duplex in MEC Networks Using Uplink NOMA in Presence of Hardware Impairments. Wireless Personal Communications, 2021, 120, 1945-1973.	1.8	2
107	Media-Aware Networks in Future Internet Media. , 2014, , 105-112.		2
108	A P2P Home-Box Overlay for Efficient Content Distribution. Advances in Wireless Technologies and Telecommunication Book Series, 0, , 199-220.	0.3	2

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109	Efficient Resource Management Utilizing Content-Aware Multipath Routing. Modeling and Optimization in Science and Technologies, 2014, , 389-395.	0.7	2
110	A broadband wireless access system for wired and wireless LANs. Journal of Communications and Networks, 2000, 2, 259-265.	1.8	1
111	Differentiated services provision in a converged DVB/IP networking environment. , 2008, , .		1
112	Hybrid Terrestrial-Satellite DVB/IP Infrastructure in Overlay Constellations for Triple-Play Services Access in Rural Areas. International Journal of Digital Multimedia Broadcasting, 2010, 2010, 1-11.	0.4	1
113	A novel content-aware multipath routing concept exploiting random utility theory principles. , 2012, , .		1
114	Noise reduction for accurate power measurements of low level signals. , 2014, , .		1
115	Using Incoming Traffic for Energy-Efficient Routing in Cognitive Radio Networks. Journal of Information Technology Research, 2015, 8, 1-24.	0.3	1
116	On the performance comparison of the agent-based rate adaptivity scheme for IEEE 802.11n and ZigBee. , 2016, , .		1
117	Guest Editorial Special Issue on Multimedia Services Provision Over Future Mobile Computing Systems. IEEE Systems Journal, 2018, 12, 12-15.	2.9	1
118	Cloud-Native Application Validation & Stress Testing through a Framework for Auto-Cluster Deployment. , 2019, , .		1
119	On Analyzing Routing Selection for Aerial Autonomous Vehicles Connected to Mobile Network. Sensors, 2021, 21, 399.	2.1	1
120	Peer-to-Peer Constellations in an IMS-Enabled Network Architecture Based on Interactive Broadcasting. Modeling and Optimization in Science and Technologies, 2014, , 271-282.	0.7	1
121	Transfer Time Calculation in FANET and WSN Networks in Crisis Scenario. , 2021, , .		1
122	Wireless provision of true VoD services and fast access to Internet. International Journal of Communication Systems, 2002, 15, 401-415.	1.6	0
123	Performance Evaluation of Triple Play Services Delivery with E2E QoS Provisioning. International Journal of Digital Multimedia Broadcasting, 2010, 2010, 1-14.	0.4	0
124	Content adaptation of IPTV services in Interactive DVB-T systems. , 2012, , .		0
125	Planning and provisioning of Virtual Content Aware Networks over IP infrastructures. , 2012, , .		0
126	IMS-enabled interactive broadcasting network utilizing peer to peer constellations. , 2012, , .		0

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127	MPEG-DASH over IDVB-T: The QoE unfairness issue. , 2014, , .		0
128	Guest Editorial: Multimedia Services Provision over Future Mobile Computing Systems. IEEE Systems Journal, 2016, 10, 745-748.	2.9	0
129	Near optimal synthesis of exponential log-periodic dipole array geometry by applying invasive weed optimization. , 2016, , .		0
130	Radar measurements with remote control software. , 2016, , .		0
131	NEREUS: an ERASMUS+ Strategic Partnership for skills development in the field of "next generation networked media over 4G+ infrastructures". , 2017, , .		0
132	Skills Development in the Field of Next Generation Networked Media Over 4G+ Infrastructures: The Nereus Approach and its First Results. , 2018, , .		0
133	VASNET Routing Protocol in Crisis Scenario Based on Carrier Vehicle. Internet of Things, 2021, , 405-425.	1.3	0
134	The Use of Novel Satellite Broadcast Technologies for the Provision of Integrated Services. , 2008, , 151-156.		0
135	ID-Based Communication for Access to Sensor Nodes. Internet of Things, 2017, , 145-163.	1.3	0
136	A Scheduling Scheme for Throughput Optimization in Mobile Peer-to-Peer Networks. Advances in Wireless Technologies and Telecommunication Book Series, 0, , 169-198.	0.3	0