

Periklis Chatzimisios

List of Publications by Year in descending order

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142
papers

3,099
citations

331670

21
h-index

233421

45
g-index

146
all docs

146
docs citations

146
times ranked

3407
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterogeneous Vehicular Networking: A Survey on Architecture, Challenges, and Solutions. IEEE Communications Surveys and Tutorials, 2015, 17, 2377-2396.	39.4	425
2	Big data-driven optimization for mobile networks toward 5G. IEEE Network, 2016, 30, 44-51.	6.9	243
3	An SMDP-Based Resource Allocation in Vehicular Cloud Computing Systems. IEEE Transactions on Industrial Electronics, 2015, 62, 7920-7928.	7.9	206
4	Low power wide area machine-to-machine networks: key techniques and prototype. , 2015, 53, 64-71.		154
5	Survey, comparison and research challenges of IoT application protocols for smart farming. Computer Networks, 2020, 168, 107037.	5.1	143
6	Internet of Things Cloud: Architecture and Implementation. IEEE Communications Magazine, 2016, 54, 32-39.	6.1	113
7	Packet delay analysis of IEEE 802.11 MAC protocol. Electronics Letters, 2003, 39, 1358.	1.0	109
8	Throughput and delay analysis of IEEE 802.11 protocol. , 0, , .		94
9	Software defined and virtualized wireless access in future wireless networks: scenarios and standards. , 2015, 53, 26-34.		78
10	Influence of channel BER on IEEE 802.11 DCF. Electronics Letters, 2003, 39, 1687.	1.0	75
11	Reliable and efficient autonomous driving: the need for heterogeneous vehicular networks. , 2015, 53, 72-79.		68
12	Standards for indoor Optical Wireless Communications. , 2015, 53, 24-31.		65
13	Performance analysis of the IEEE 802.11 MAC protocol for wireless LANs. International Journal of Communication Systems, 2005, 18, 545-569.	2.5	55
14	An access network selection algorithm for heterogeneous wireless environments. , 2010, , .		55
15	FDASH: A Fuzzy-Based MPEG/DASH Adaptation Algorithm. IEEE Systems Journal, 2016, 10, 859-868.	4.6	55
16	Effectiveness of RTS $\hat{\wedge}$ CTS handshake in IEEE 802.11a Wireless LANs. Electronics Letters, 2004, 40, 915.	1.0	52
17	Fuzzy Logic-Based Routing Algorithm for Lifetime Enhancement in Heterogeneous Wireless Sensor Networks. IEEE Transactions on Green Communications and Networking, 2018, 2, 517-532.	5.5	45
18	Performance evaluation methods in ad hoc and wireless sensor networks: a literature study. , 2016, 54, 122-128.		38

#	ARTICLE	IF	CITATIONS
19	IEEE 802.11 user fingerprinting and its applications for intrusion detection. Computers and Mathematics With Applications, 2010, 60, 307-318.	2.7	35
20	Achieving performance enhancement in IEEE 802.11 WLANs by using the DIDD backoff mechanism. International Journal of Communication Systems, 2007, 20, 23-41.	2.5	32
21	Energy Aware Opportunistic Routing in Wireless Sensor Networks. , 2012, , .		32
22	IEEE 802.11 Wireless LANs: Performance Analysis and Protocol Refinement. Eurasip Journal on Wireless Communications and Networking, 2005, 2005, 1.	2.4	31
23	A Tutorial on Performance Evaluation and Validation Methodology for Low-Power and Lossy Networks. IEEE Communications Surveys and Tutorials, 2018, 20, 1799-1825.	39.4	31
24	Information-centric networking and multimedia services: present and future challenges. Transactions on Emerging Telecommunications Technologies, 2014, 25, 392-406.	3.9	30
25	Low-power neighbor discovery for mobility-aware wireless sensor networks. Ad Hoc Networks, 2016, 48, 66-79.	5.5	28
26	LABeL. , 2017, , .		27
27	Application of Wireless Sensor Networks for Indoor Temperature Regulation. International Journal of Distributed Sensor Networks, 2014, 10, 502419.	2.2	26
28	LDSF: Low-Latency Distributed Scheduling Function for Industrial Internet of Things. IEEE Internet of Things Journal, 2020, 7, 8688-8699.	8.7	26
29	A utility-based resource allocation scheme in cloud-assisted vehicular network architecture. , 2015, , .		23
30	Is local blacklisting relevant in slow channel hopping low-power wireless networks?. , 2017, , .		22
31	IEEE 802.11ax Spatial Reuse Improvement: An Interference-Based Channel-Access Algorithm. IEEE Vehicular Technology Magazine, 2019, 14, 78-84.	3.4	22
32	Packet Delay Distribution of the IEEE 802.11 Distributed Coordination Function. , 0, , .		21
33	Versatile Internet of Things for Agriculture: An eXplainable AI Approach. IFIP Advances in Information and Communication Technology, 2020, , 180-191.	0.7	21
34	A survey on security and privacy issues in <scp>Wireless Mesh Networks</scp>. Security and Communication Networks, 2016, 9, 1877-1889.	1.5	19
35	Wireless Medium Access Control under Mobility and Bursty Traffic Assumptions in WSNs. Mobile Networks and Applications, 2015, 20, 649-660.	3.3	18
36	A Continuous-Time Markov decision process-based resource allocation scheme in vehicular cloud for mobile video services. Computer Communications, 2018, 118, 140-147.	5.1	18

#	ARTICLE	IF	CITATIONS
37	Blacklisting-Based Channel Hopping Approaches in Low-Power and Lossy Networks. IEEE Communications Magazine, 2019, 57, 48-53.	6.1	18
38	IEEE 802.11aa: Improvements on video transmission over wireless LANs. , 2012, , .		17
39	A Fluctuation-Based Modelling Approach to Quantification of the Technical Debt on Mobile Cloud-Based Service Level. , 2015, , .		17
40	Malware detection in the cloud under Ensemble Empirical Mode Decomposition. , 2015, , .		17
41	IEEE 802.11s Wireless Mesh Networks: Challenges and Perspectives. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 263-271.	0.3	16
42	Towards the evaluation of a big data-as-a-service model: A decision theoretic approach. , 2016, , .		15
43	Monitoring Traffic Optimization in a Smart Grid. IEEE Transactions on Industrial Informatics, 2017, 13, 3246-3255.	11.3	15
44	Efficiency-Aware Watermarking using Different Wavelet Families for the Internet of Things. , 2019, , .		15
45	Advances in Massive MIMO Antenna Design, Channel Modeling, and System Technologies. International Journal of Antennas and Propagation, 2014, 2014, 1-1.	1.2	14
46	Massive access in the Random Access Channel of LTE for M2M communications: An energy perspective. , 2015, , .		14
47	Whitelisting Without Collisions for Centralized Scheduling in Wireless Industrial Networks. IEEE Internet of Things Journal, 2019, 6, 5713-5721.	8.7	14
48	Design and implementation of application programming interface for Internet of things cloud. International Journal of Network Management, 2017, 27, e1936.	2.2	13
49	Cognitive networking with opportunistic routing in Wireless Sensor Networks. , 2013, , .		12
50	IEEE 802.15.4 MAC layer performance enhancement by employing RTS/CTS combined with packet concatenation. , 2014, , .		12
51	Energy-Efficient Over-the-Air Computation Scheme for Densely Deployed IoT Networks. IEEE Transactions on Industrial Informatics, 2020, 16, 3558-3565.	11.3	12
52	Joint optimization of link scheduling and resource allocation in cooperative vehicular networks. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	2.4	11
53	Self-Organization Drone-Based Unmanned Aerial Vehicles (UAV) Networks. , 2019, , .		11
54	Access Network Selection in a Heterogeneous Environment Using the AHP and Fuzzy TOPSIS Methods. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 88-98.	0.3	11

#	ARTICLE	IF	CITATIONS
55	Delay jitter analysis of 802.11 DCF. Electronics Letters, 2007, 43, 1472.	1.0	10
56	IPTV QoS and QoE measurements in wired and wireless networks. , 2012, , .		10
57	Virtual machine live migration for pervasive services in cloud-assisted vehicular networks. , 2013, , .		10
58	A novel link allocation method for vehicle-to-vehicle based relaying networks. Transactions on Emerging Telecommunications Technologies, 2016, 27, 64-73.	3.9	10
59	TAOF: Traffic Aware Objective Function for RPL-based Networks. , 2018, , .		10
60	Packet delay analysis of the advanced infrared (AIr) CSMA/CA MAC protocol in optical wireless LANs. International Journal of Communication Systems, 2005, 18, 307-331.	2.5	9
61	Modeling and performance analysis of an alternative to IEEE 802.11e Hybrid Control Function. Telecommunication Systems, 2013, 52, 1961-1976.	2.5	9
62	Guest Editorial Special Issue on 5G Wireless Systems With Massive MIMO. IEEE Systems Journal, 2017, 11, 4-6.	4.6	9
63	Social-oriented Mobile Cloud Offload processing with delay constraints for efficient energy conservation. , 2017, , .		9
64	Delay Distribution Analysis of the RTS/CTS mechanism of IEEE 802.11. Local Computer Networks (LCN), Proceedings of the IEEE Conference on, 2006, , .	0.0	8
65	Enhancing ContikiMAC for bursty traffic in mobile sensor networks. , 2014, , .		8
66	DC-MAC: A data-centric multi-hop MAC protocol for underwater acoustic sensor networks. , 2011, , .		7
67	A Survey on Smart Grid Communications: From an Architecture Overview to Standardization Activities. , 2013, , 665-689.		7
68	Energy Efficient Cognitive Unicast Routing for Wireless Sensor Networks. , 2013, , .		7
69	Toward a packet duplication control for opportunistic routing in WSNs. , 2014, , .		7
70	Editorial of ETT Feature Issue: Smart Cities - Trends & Technologies. Transactions on Emerging Telecommunications Technologies, 2014, 25, 1-2.	3.9	7
71	Optimizing the handover delay in mobile WSNs. , 2015, , .		7
72	Recent advances in fog and mobile edge computing. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3307.	3.9	7

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73	A Support Infrastructure for Machine Learning at the Edge in Smart City Surveillance. , 2019, , .		7
74	Real-world IPTV network measurements. , 2011, , .		6
75	A Mobility-Supporting MAC Scheme for Bursty Traffic in IoT and WSNs. , 2016, , .		6
76	IEEE Access Special Section Editorial: Advances in Vehicular Clouds. IEEE Access, 2016, 4, 10315-10317.	4.2	6
77	A Remote Surgery Use Case for the IEEE P1918.1 Tactile Internet Standard. , 2021, , .		6
78	Studying the Impact of Data Traffic on Voice Capacity in IEEE 802.11 WLANs. , 2010, , .		5
79	Block acknowledgment mechanisms for the optimization of channel use in wireless sensor networks. , 2013, , .		5
80	Epidemic models using Resource Prediction mechanism for optimal provision of multimedia services. , 2015, , .		5
81	5G Radio Access Architecture and Technologies [Guest editor introduction]. IEEE Communications Magazine, 2016, 54, 14-15.	6.1	5
82	An interference based dynamic channel access algorithm for dense WLAN deployments. , 2017, , .		5
83	Adaptive Multi-Channel Offset Assignment for Reliable IEEE 802.15.4 TSCH Networks. , 2018, , .		5
84	Revisit of fading channel characteristics in IEEE 802.11 WLANs: independent and burst transmission errors. , 2006, , .		4
85	Voice and Data Traffic Analysis in IEEE 802.11 DCF Infrastructure WLANs. , 2009, , .		4
86	Collaborative Efforts for Safety and Security in Vehicular Communication Networks. , 2011, , .		4
87	ANFIS-based quality prediction models for AMR telephony in public 2G/3G mobile networks. , 2012, , .		4
88	A methodology for testing battery deprivation denial of service attacks in mobile phones. , 2015, , .		4
89	A Novel Methodology for Capitalizing on Cloud Storage through a Big Data-as-a-Service Framework. , 2016, , .		4
90	Performance Evaluation of SDN and RPL in Wireless Sensor Networks. , 2018, , .		4

#	ARTICLE	IF	CITATIONS
91	Optimizing IrDA throughput by including processing time with physical layer consideration. Journal of Optical Networking, 2005, 4, 323.	2.5	3
92	A novel fair mapping scheme for IEEE 802.16 downlink sub-frame. , 2010, , .		3
93	AWPP: A New Scheme for Wireless Access Control Proportional to Traffic Priority and Rate. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	2.4	3
94	A global-local approach for estimating the Internet's threat level. Journal of Communications and Networks, 2014, 16, 407-414.	2.6	3
95	Reliable Machine-to-Machine Multicast Services with Multi-Radio Cooperative Retransmissions. Mobile Networks and Applications, 2015, 20, 734-744.	3.3	3
96	Link quality and path based clustering in IEEE 802.15.4-2015 TSCH networks. , 2017, , .		3
97	IEEE Access Special Section Editorial: Communication, Control, and Computation Issues in Heterogeneous Vehicular Networks. IEEE Access, 2018, 6, 79285-79287.	4.2	3
98	An Agent-Based QoE Monitoring Strategy for LTE Networks. , 2018, , .		3
99	ACM/Springer Mobile Networks and Applications (MONET) Special Issue on "Recent Advances in IEEE 802.11 WLANs: Protocols, Solutions and Future Directions": Mobile Networks and Applications, 2009, 14, 693-696.	3.3	2
100	Adaptive resource allocation and dynamic Call Admission Control in wireless networks. , 2010, , .		2
101	Performance and Fairness Analysis of a QoS Supportive MAC Protocol for Wireless LANs. , 2011, , .		2
102	Measuring the Internet's threat level: A global-local approach. , 2014, , .		2
103	Hybrid information and energy transfer in ultra-dense HetNets. Computer Networks, 2017, 129, 502-509.	5.1	2
104	Telecommunication and Network Engineering Education. IEEE Communications Magazine, 2019, 57, 12-13.	6.1	2
105	Wireless Systems and Networks in the IoT. Sensors, 2020, 20, 2279.	3.8	2
106	Connectivity Restoration and Amelioration in Wireless Ad-Hoc Networks: A Practical Solution. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2014, , 255-264.	0.3	2
107	Performance enhancement of IEEE 802.15.4 by employing RTS/CTS and frame concatenation. IET Wireless Sensor Systems, 2020, 10, 308-319.	1.7	2
108	The Role of Roadside Assistance in Vehicular Communication Networks. , 0, , 1-37.		2

#	ARTICLE	IF	CITATIONS
109	DIDD backoff scheme: An enhancement to IEEE 802.11 DCF under burst transmission errors. , 2006, , .		1
110	Joint per-flow scheduling and routing in wireless multihop networks. , 2011, , .		1
111	EDCA mechanism and mobility support evaluation in IEEE 802.11s WMNs. , 2014, , .		1
112	Evaluating the impact of next node selection criteria on Quality of Service dynamic routing. , 2014, , .		1
113	Editorial: Special issue on QoE in 2D/3D video systems. Journal of Visual Communication and Image Representation, 2014, 25, 523-524.	2.8	1
114	Advances in New Signal Processing Techniques for 5G. International Journal of Antennas and Propagation, 2016, 2016, 1-1.	1.2	1
115	Security and networking for cyber-physical systems. Security and Communication Networks, 2016, 9, 807-807.	1.5	1
116	An 802.11p Compliant System Prototype Supporting Road Safety and Traffic Management Applications. International Journal of Wireless Networks and Broadband Technologies, 2014, 3, 1-17.	1.0	1
117	Two innovative energy efficient IEEE 802.15.4 MAC sub-layer protocols with packet concatenation: employing RTS/CTS and multichannel scheduled channel polling. , 2019, , 241-288.		1
118	Digital soil mapping using Sentinel-2 imagery supported by ASTER thermal infrared bands. , 2020, , .		1
119	802.11p-Based VANET Applications Improving Road Safety and Traffic Management. Advances in Wireless Technologies and Telecommunication Book Series, 0, , 135-168.	0.4	1
120	Circularity Principles in Crowdsourced Systems. , 2020, , .		1
121	Welcome message from the chairs. , 2008, , .		0
122	ICCCN 2010 Message from the ConWire Co-chairs. , 2010, , .		0
123	Lightweight Mobile and Wireless Systems: Technologies, Architectures, and Services. Journal of Computer Systems, Networks, and Communications, 2010, 2010, 1-2.	1.2	0
124	IC-Web 2011 Message. , 2011, , .		0
125	ISCC 2011: Technical program chairs' message. , 2011, , .		0
126	Coverage and capacity optimization in self-aware systems of the Future Internet. , 2012, , .		0

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127	A paradigm for the development of Self-Growing energy-aware networks. , 2012, , .		0
128	Exploring the intra-frame energy conservation capabilities of the horizontal simple packing algorithm in IEEE 802.16e networks: an analytical approach. Wireless Networks, 2013, 19, 547-558.	3.0	0
129	ETT special issue on "Quality of Experience in Wireless Multimedia Systems"™. Transactions on Emerging Telecommunications Technologies, 2013, 24, 257-258.	3.9	0
130	Welcome message from the ON-MOVE chairs. , 2013, , .		0
131	Block acknowledgment in IEEE 802.15.4 by employing DSSS and CSS PHY layers. , 2014, , .		0
132	IEEE Access Special Section Editorial: Special Section on Big Data for Green Communications and Computing. IEEE Access, 2016, 4, 9542-9544.	4.2	0
133	Telecommunication Standards Education. , 2017, 55, 108-109.		0
134	GUEST EDITORIAL special issue on real-time perceptual-inspired imaging systems with computational science and aesthetics. Journal of Real-Time Image Processing, 2017, 13, 415-418.	3.5	0
135	A QoE monitoring solution for LTE-Advanced Pro networks. , 2018, , .		0
136	DRIVE: Discovery seRvice for fully-Integrated 5G enVironmEnt in the IoT. , 2018, , .		0
137	Erasure Coding for Ultra-Low Power Wireless Networks. IEEE Transactions on Green Communications and Networking, 2019, 3, 866-875.	5.5	0
138	Guest Editors"™ Introduction: Special Section on Mobile Cloud Computing. IEEE Transactions on Cloud Computing, 2019, 7, 298-300.	4.4	0
139	A Secure, Energy-Efficient and Distributed manageable model for a Smart Home. , 2020, , .		0
140	Self-organizing Mobile Ad Hoc Networks: Spontaneous Clustering at the MAC Layer. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 242-253.	0.3	0
141	An 802.11p Compliant System Prototype Supporting Road Safety and Traffic Management Applications. , 2015, , 909-926.		0
142	Privacy Issues in Social Networks. , 0, , 162-183.		0