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	A Remote Surgery Use Case for the IEEE P1918.1 Tactile Internet Standard. , 2021, , .		6
2	Energy-Efficient Over-the-Air Computation Scheme for Densely Deployed IoT Networks. IEEE Transactions on Industrial Informatics, 2020, 16, 3558-3565.	11.3	12
3	Survey, comparison and research challenges of IoT application protocols for smart farming. Computer Networks, 2020, 168, 107037.	5.1	143
4	A Secure, Energy-Efficient and Distributed manageable model for a Smart Home. , 2020, , .		0
5	Wireless Systems and Networks in the IoT. Sensors, 2020, 20, 2279.	3.8	2
6	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
7	LDSF: Low-Latency Distributed Scheduling Function for Industrial Internet of Things. IEEE Internet of Things Journal, 2020, 7, 8688-8699.	8.7	26
8	Digital soil mapping using Sentinel-2 imagery supported by ASTER thermal infrared bands. , 2020, , .		1
9	Versatile Internet of Things for Agriculture: An eXplainable AI Approach. IFIP Advances in Information and Communication Technology, 2020, , 180-191.	0.7	21
10	Circularity Principles in Crowdsourced Systems. , 2020, , .		1
11	Erasure Coding for Ultra-Low Power Wireless Networks. IEEE Transactions on Green Communications and Networking, 2019, 3, 866-875.	5.5	0
12	Efficiency-Aware Watermarking using Different Wavelet Families for the Internet of Things. , 2019, , .		15
13	Self-Organization Drone-Based Unmanned Aerial Vehicles (UAV) Networks. , 2019, , .		11
14	Guest Editorsâ€™ Introduction: Special Section on Mobile Cloud Computing. IEEE Transactions on Cloud Computing, 2019, 7, 298-300.	4.4	0
15	IEEE 802.11ax Spatial Reuse Improvement: An Interference-Based Channel-Access Algorithm. IEEE Vehicular Technology Magazine, 2019, 14, 78-84.	3.4	22
16	Whitelisting Without Collisions for Centralized Scheduling in Wireless Industrial Networks. IEEE Internet of Things Journal, 2019, 6, 5713-5721.	8.7	14
17	Blacklisting-Based Channel Hopping Approaches in Low-Power and Lossy Networks. IEEE Communications Magazine, 2019, 57, 48-53.	6.1	18
18	Telecommunication and Network Engineering Education. IEEE Communications Magazine, 2019, 57, 12-13.	6.1	2

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19	A Support Infrastructure for Machine Learning at the Edge in Smart City Surveillance. , 2019, , .		7
20	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
21	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
22	Recent advances in fog and mobile edge computing. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3307.	3.9	7
23	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
24	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
25	Adaptive Multi-Channel Offset Assignment for Reliable IEEE 802.15.4 TSCH Networks. , 2018, , .		5
26	TAOF: Traffic Aware Objective Function for RPL-based Networks. , 2018, , .		10
27	Performance Evaluation of SDN and RPL in Wireless Sensor Networks. , 2018, , .		4
28	IEEE Access Special Section Editorial: Communication, Control, and Computation Issues in Heterogeneous Vehicular Networks. IEEE Access, 2018, 6, 79285-79287.	4.2	3
29	A QoE monitoring solution for LTE-Advanced Pro networks. , 2018, , .		0
30	DRIVE: Discovery seRvice for fully-Integrated 5G enVironmEnt in the IoT. , 2018, , .		0
31	An Agent-Based QoE Monitoring Strategy for LTE Networks. , 2018, , .		3
32	Guest Editorial Special Issue on 5G Wireless Systems With Massive MIMO. IEEE Systems Journal, 2017, 11, 4-6.	4.6	9
33	Hybrid information and energy transfer in ultra-dense HetNets. Computer Networks, 2017, 129, 502-509.	5.1	2
34	Telecommunication Standards Education. , 2017, 55, 108-109.		0
35	Monitoring Traffic Optimization in a Smart Grid. IEEE Transactions on Industrial Informatics, 2017, 13, 3246-3255.	11.3	15
36	Is local blacklisting relevant in slow channel hopping low-power wireless networks?. , 2017, , .		22

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37	LABeL. , 2017, , .		27
38	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
39	Design and implementation of application programming interface for Internet of things cloud. International Journal of Network Management, 2017, 27, e1936.	2.2	13
40	An interference based dynamic channel access algorithm for dense WLAN deployments. , 2017, , .		5
41	Link quality and path based clustering in IEEE 802.15.4-2015 TSCH networks. , 2017, , .		3
42	Social-oriented Mobile Cloud Offload processing with delay constraints for efficient energy conservation. , 2017, , .		9
43	Advances in New Signal Processing Techniques for 5G. International Journal of Antennas and Propagation, 2016, 2016, 1-1.	1.2	1
44	A Novel Methodology for Capitalizing on Cloud Storage through a Big Data-as-a-Service Framework. , 2016, , .		4
45	A Mobility-Supporting MAC Scheme for Bursty Traffic in IoT and WSNs. , 2016, , .		6
46	Ieee Access Special Section Editorial: Special Section on Big Data for Green Communications and Computing. IEEE Access, 2016, 4, 9542-9544.	4.2	0
47	Internet of Things Cloud: Architecture and Implementation. IEEE Communications Magazine, 2016, 54, 32-39.	6.1	113
48	Towards the evaluation of a big data-as-a-service model: A decision theoretic approach. , 2016, , .		15
49	A novel link allocation method for vehicleâ€toâ€vehicleâ€based relaying networks. Transactions on Emerging Telecommunications Technologies, 2016, 27, 64-73.	3.9	10
50	5G Radio Access Architecture and Technologies [Guest editor introduction]. IEEE Communications Magazine, 2016, 54, 14-15.	6.1	5
51	IEEE Access Special Section Editorial: Advances in Vehicular Clouds. IEEE Access, 2016, 4, 10315-10317.	4.2	6
52	Low-power neighbor discovery for mobility-aware wireless sensor networks. Ad Hoc Networks, 2016, 48, 66-79.	5.5	28
53	Big data-driven optimization for mobile networks toward 5G. IEEE Network, 2016, 30, 44-51.	6.9	243
54	Performance evaluation methods in ad hoc and wireless sensor networks: a literature study. , 2016, 54, 122-128.		38

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55	Security and networking for cyberâ€physical systems. Security and Communication Networks, 2016, 9, 807-807.	1.5	1
56	FDASH: A Fuzzy-Based MPEG/DASH Adaptation Algorithm. IEEE Systems Journal, 2016, 10, 859-868.	4.6	55
57	A survey on security and privacy issues in <scp>Wireless Mesh Networks</scp>. Security and Communication Networks, 2016, 9, 1877-1889.	1.5	19
58	Standards for indoor Optical Wireless Communications. , 2015, 53, 24-31.		65
59	Heterogeneous Vehicular Networking: A Survey on Architecture, Challenges, and Solutions. IEEE Communications Surveys and Tutorials, 2015, 17, 2377-2396.	39.4	425
60	Wireless Medium Access Control under Mobility and Bursty Traffic Assumptions in WSNs. Mobile Networks and Applications, 2015, 20, 649-660.	3.3	18
61	A Fluctuation-Based Modelling Approach to Quantification of the Technical Debt on Mobile Cloud-Based Service Level. , 2015, , .		17
62	Reliable and efficient autonomous driving: the need for heterogeneous vehicular networks. , 2015, 53, 72-79.		68
63	Epidemic models using Resource Prediction mechanism for optimal provision of multimedia services. , 2015, , .		5
64	Optimizing the handover delay in mobile WSNs. , 2015, , .		7
65	Reliable Machine-to-Machine Multicast Services with Multi-Radio Cooperative Retransmissions. Mobile Networks and Applications, 2015, 20, 734-744.	3.3	3
66	Software defined and virtualized wireless access in future wireless networks: scenarios and standards. , 2015, 53, 26-34.		78
67	Malware detection in the cloud under Ensemble Empirical Mode Decomposition. , 2015, , .		17
68	Low power wide area machine-to-machine networks: key techniques and prototype. , 2015, 53, 64-71.		154
69	An SMDP-Based Resource Allocation in Vehicular Cloud Computing Systems. IEEE Transactions on Industrial Electronics, 2015, 62, 7920-7928.	7.9	206
70	Joint optimization of link scheduling and resource allocation in cooperative vehicular networks. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	2.4	11
71	A methodology for testing battery deprivation denial of service attacks in mobile phones. , 2015, , .		4
72	Massive access in the Random Access Channel of LTE for M2M communications: An energy perspective. , 2015, , .		14

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73	A utility-based resource allocation scheme in cloud-assisted vehicular network architecture. , 2015, , .		23
74	An 802.11p Compliant System Prototype Supporting Road Safety and Traffic Management Applications. , 2015, , 909-926.		0
75	Advances in Massive MIMO Antenna Design, Channel Modeling, and System Technologies. International Journal of Antennas and Propagation, 2014, 2014, 1-1.	1.2	14
76	Toward a packet duplication control for opportunistic routing in WSNs. , 2014, , .		7
77	Enhancing ContikiMAC for bursty traffic in mobile sensor networks. , 2014, , .		8
78	EDCA mechanism and mobility support evaluation in IEEE 802.11s WMNs. , 2014, , .		1
79	Evaluating the impact of next node selection criteria on Quality of Service dynamic routing. , 2014, , .		1
80	Block acknowledgment in IEEE 802.15.4 by employing DSSS and CSS PHY layers. , 2014, , .		0
81	Editorial of ETT Feature Issue: Smart Cities - Trends & Technologies. Transactions on Emerging Telecommunications Technologies, 2014, 25, 1-2.	3.9	7
82	Editorial: Special issue on QoE in 2D/3D video systems. Journal of Visual Communication and Image Representation, 2014, 25, 523-524.	2.8	1
83	Informationâ€centric networking and multimedia services: present and future challenges. Transactions on Emerging Telecommunications Technologies, 2014, 25, 392-406.	3.9	30
84	Measuring the Internet's threat level: A global-local approach. , 2014, , .		2
85	IEEE 802.15.4 MAC layer performance enhancement by employing RTS/CTS combined with packet concatenation. , 2014, , .		12
86	A global-local approach for estimating the Internet's threat level. Journal of Communications and Networks, 2014, 16, 407-414.	2.6	3
87	Application of Wireless Sensor Networks for Indoor Temperature Regulation. International Journal of Distributed Sensor Networks, 2014, 10, 502419.	2.2	26
88	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
89	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
90	Modeling and performance analysis of an alternative to IEEE 802.11e Hybrid Control Function. Telecommunication Systems, 2013, 52, 1961-1976.	2.5	9

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91	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
92	A Survey on Smart Grid Communications: From an Architecture Overview to Standardization Activities. , 2013, , 665-689.		7
93	Cognitive networking with opportunistic routing in Wireless Sensor Networks. , 2013, , .		12
94	Block acknowledgment mechanisms for the optimization of channel use in wireless sensor networks. , 2013, , .		5
95	Energy Efficient Cognitive Unicast Routing for Wireless Sensor Networks. , 2013, , .		7
96	ETT special issue on â€˜Quality of Experience in Wireless Multimedia Systemsâ€™. Transactions on Emerging Telecommunications Technologies, 2013, 24, 257-258.	3.9	0
97	Virtual machine live migration for pervasive services in cloud-assisted vehicular networks. , 2013, , .		10
98	Welcome message from the ON-MOVE chairs. , 2013, , .		0
99	Coverage and capacity optimization in self-aware systems of the Future Internet. , 2012, , .		0
100	IEEE 802.11aa: Improvements on video transmission over wireless LANs. , 2012, , .		17
101	ANFIS-based quality prediction models for AMR telephony in public 2G/3G mobile networks. , 2012, , .		4
102	A paradigm for the development of Self-Growing energy-aware networks. , 2012, , .		0
103	Energy Aware Opportunistic Routing in Wireless Sensor Networks. , 2012, , .		32
104	IPTV QoS and QoE measurements in wired and wireless networks. , 2012, , .		10
105	Real-world IPTV network measurements. , 2011, , .		6
106	DC-MAC: A data-centric multi-hop MAC protocol for underwater acoustic sensor networks. , 2011, , .		7
107	Collaborative Efforts for Safety and Security in Vehicular Communication Networks. , 2011, , .		4
108	Joint per-flow scheduling and routing in wireless multihop networks. , 2011, , .		1

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109	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
110	IC-Web 2011 Message. , 2011, , .		0
111	ISCC 2011: Technical program chairs' message. , 2011, , .		0
112	Performance and Fairness Analysis of a QoS Supportive MAC Protocol for Wireless LANs. , 2011, , .		2
113	ICCCN 2010 Message from the ConWire Co-chairs. , 2010, , .		0
114	IEEE 802.11 user fingerprinting and its applications for intrusion detection. Computers and Mathematics With Applications, 2010, 60, 307-318.	2.7	35
115	Lightweight Mobile and Wireless Systems: Technologies, Architectures, and Services. Journal of Computer Systems, Networks, and Communications, 2010, 2010, 1-2.	1.2	0
116	Studying the Impact of Data Traffic on Voice Capacity in IEEE 802.11 WLANs. , 2010, , .		5
117	A novel fair mapping scheme for IEEE 802.16 downlink sub-frame. , 2010, , .		3
118	An access network selection algorithm for heterogeneous wireless environments. , 2010, , .		55
119	Adaptive resource allocation and dynamic Call Admission Control in wireless networks. , 2010, , .		2
120	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
121	ACM/Springer Mobile Networks and Applications (MONET) Special Issue on â€œRecent Advances in IEEE 802.11 WLANs: Protocols, Solutions and Future Directionsâ€• Mobile Networks and Applications, 2009, 14, 693-696.	3.3	2
122	Voice and Data Traffic Analysis in IEEE 802.11 DCF Infrastructure WLANs. , 2009, , .		4
123	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
124	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
125	Welcome message from the chairs. , 2008, , .		0
126	Delay jitter analysis of 802.11 DCF. Electronics Letters, 2007, 43, 1472.	1.0	10

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127	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
128	DIDD backoff scheme: An enhancement to IEEE 802.11 DCF under burst transmission errors. , 2006, , .		1
129	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
130	Revisit of fading channel characteristics in IEEE 802.11 WLANs: independent and burst transmission errors. , 2006, , .		4
131	IEEE 802.11 Wireless LANs: Performance Analysis and Protocol Refinement. Eurasip Journal on Wireless Communications and Networking, 2005, 2005, 1.	2.4	31
132	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
133	Performance analysis of the IEEE 802.11 MAC protocol for wireless LANs. International Journal of Communication Systems, 2005, 18, 545-569.	2.5	55
134	Optimizing IrDA throughput by including processing time with physical layer consideration. Journal of Optical Networking, 2005, 4, 323.	2.5	3
135	Effectiveness of RTSâˆ•CTS handshake in IEEE 802.11a Wireless LANs. Electronics Letters, 2004, 40, 915.	1.0	52
136	Packet delay analysis of IEEE 802.11 MAC protocol. Electronics Letters, 2003, 39, 1358.	1.0	109
137	Influence of channel BER on IEEE 802.11 DCF. Electronics Letters, 2003, 39, 1687.	1.0	75
138	Throughput and delay analysis of IEEE 802.11 protocol. , 0, , .		94
139	Packet Delay Distribution of the IEEE 802.11 Distributed Coordination Function. , 0, , .		21
140	The Role of Roadside Assistance in Vehicular Communication Networks. , 0, , 1-37.		2
141	Privacy Issues in Social Networks. , 0, , 162-183.		0
142	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