Konstantinos Oikonomou

List of Publications by Year
in descending order

82 papers	658 citations	687220 13 h-index	713332 21 g-index
82 all docs	82 docs citations	82 times ranked	583 citing authors

#	Article	IF	Citations
1	Elastic virtual machine placement in cloud computing network environments. Computer Networks, 2015, 93, 435-447.	3.2	81
2	Analysis of a Probabilistic Topology-Unaware TDMA MAC Policy for Ad Hoc Networks. IEEE Journal on Selected Areas in Communications, 2004, 22, 1286-1300.	9.7	50
3	Wireless Sensor Network Synchronization for Precision Agriculture Applications. Agriculture (Switzerland), 2020, 10, 89.	1.4	37
4	Scalable service migration in autonomic network environments. IEEE Journal on Selected Areas in Communications, 2010, 28, 84-94.	9.7	32
5	Scalable Traffic-Aware Virtual Machine Management for Cloud Data Centers. , 2014, , .		27
6	Synchronization of data measurements in wireless sensor networks for IoT applications. Ad Hoc Networks, 2019, 89, 47-57.	3.4	26
7	Evaluating Museum Virtual Tours: The Case Study of Italy. Information (Switzerland), 2019, 10, 351.	1.7	23
8	Energy-efficient sink placement in wireless sensor networks. Computer Networks, 2018, 141, 166-178.	3.2	20
9	Performance Analysis of Probabilistic Flooding Using Random Graphs. , 2007, , .		19
10	Distributed Server Migration for Scalable Internet Service Deployment. IEEE/ACM Transactions on Networking, 2014, 22, 917-930.	2.6	19
11	An Alertness-Adjustable Cloud/Fog IoT Solution for Timely Environmental Monitoring Based on Wildfire Risk Forecasting. Energies, 2020, 13, 3693.	1.6	19
12	Probabilistic flooding for efficient information dissemination in random graph topologies. Computer Networks, 2010, 54, 1615-1629.	3.2	18
13	Latency-Adjustable Cloud/Fog Computing Architecture for Time-Sensitive Environmental Monitoring in Olive Groves. AgriEngineering, 2020, 2, 175-205.	1.7	16
14	Scalable service migration in general topologies. , 2008, , .		15
15	A Low-Cost Vehicular Traffic Monitoring System Using Fog Computing. Smart Cities, 2020, 3, 138-156.	5.5	15
16	Structural Health Monitoring in Historical Buildings: A Network Approach. Heritage, 2020, 3, 796-818.	0.9	13
17	A distributed privacy-preserving scheme for location-based queries. , 2010, , .		12
18	Random walk with jumps in large-scale random geometric graphs. Computer Communications, 2010, 33, 1505-1514.	3.1	11

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19	Energy and Distance Optimization in Rechargeable Wireless Sensor Networks. IEEE Transactions on Green Communications and Networking, 2021, 5, 378-391.	3.5	11
20	A recharging distance analysis for wireless sensor networks. Ad Hoc Networks, 2018, 75-76, 80-86.	3.4	10
21	A disjoint frame topology-independent TDMA MAC policy for safety applications in vehicular networks. Ad Hoc Networks, 2018, 79, 43-52.	3.4	10
22	QoE-Aware Rendering Service Allocation in Fog-Assisted Cloud Gaming Environments. , 2020, , .		10
23	Impact of drone route geometry on information collection in wireless sensor networks. Ad Hoc Networks, 2020, 106, 102220.	3.4	10
24	Dynamic sink assignment for efficient energy consumption in wireless sensor networks. , 2012, , .		9
25	Implementing Scalable, Network-Aware Virtual Machine Migration for Cloud Data Centers. , 2013, , .		9
26	CaBIUs: Description of the Enhanced Wireless Campus Testbed of the Ionian University. Electronics (Switzerland), 2020, 9, 454.	1.8	8
27	Efficient and realistic cultural heritage representation in large scale virtual environments. , 2014, , .		7
28	Cultural heritage recommendations and user navigation in large scale virtual environments. International Journal of Computational Intelligence Studies, 2015, 4, 151.	0.3	7
29	Probabilistic flooding coverage analysis for efficient information dissemination in wireless networks. Computer Networks, 2018, 140, 51-61.	3.2	7
30	Avoiding energy holes in wireless sensor networks with non-uniform energy distribution. , 2014, , .		6
31	A study of information dissemination under multiple random walkers and replication mechanisms. , 2010, , .		6
32	Energy considerations for topology-unaware TDMA MAC protocols. Ad Hoc Networks, 2006, 4, 359-379.	3.4	5
33	Study of randomly replicated random walks for information dissemination over various network topologies. , 2009, , .		5
34	Multiple and replicated random walkers analysis for service discovery in fog computing IoT environments. Ad Hoc Networks, 2019, 93, 101893.	3.4	5
35	A Fairness-Aware topology independent TDMA MAC policy in time constrained wireless ad hoc networks. Computer Networks, 2020, 171, 107157.	3.2	5
36	A Probabilistic Topology Unaware TDMA Medium Access Control Policy for Ad Hoc Environments. Lecture Notes in Computer Science, 2003, , 291-305.	1.0	5

#	ARTICLE	IF	CITATIONS
37	Analysis of topology-unaware TDMA MAC policies for ad-hoc networks under diverse traffic loads. Mobile Computing and Communications Review, 2005, 9, 25-38.	1.7	5
38	Throughput Analysis of a Probabilistic Topology-Unaware TDMA MAC Policy for Ad-hoc Networks. Lecture Notes in Computer Science, 2003, , 172-181.	1.0	4
39	Performance analysis of topology-unaware TDMA MAC schemes for ad hoc networks with topology control. Computer Communications, 2005, 28, 313-324.	3.1	4
40	An Adaptive Time-Spread Multiple-Access Policy for Wireless Sensor Networks. Eurasip Journal on Wireless Communications and Networking, 2007, 2007, 1.	1.5	4
41	Distributed Construction of D-Hop Connected Dominating Sets for Wireless Sensor Networks. , 2018, , .		4
42	Adapting Probabilistic Flooding in Energy Harvesting Wireless Sensor Networks. Journal of Sensor and Actuator Networks, 2018, 7, 39.	2.3	4
43	Constructing Virtual Backbones over Low-Cost Wireless Networks for Smart Tourism Services. , 2019, , .		4
44	Probabilistic flooding coverage analysis in large scale wireless networks. , 2012, , .		3
45	Changing the look of a city: The v-Corfu case. , 2014, , .		3
46	A v(irtual)-City implementation for promoting cultural heritage. International Journal of Computational Intelligence Studies, 2015, 4, 173.	0.3	3
47	Random Walker Coverage Analysis for Information Dissemination in Wireless Sensor Networks. Technologies, 2017, 5, 33.	3.0	3
48	Adaptive Exhibition Topologies for Personalized Virtual Museums. IOP Conference Series: Materials Science and Engineering, 2018, 364, 012011.	0.3	3
49	Structural Health Monitoring In Historical Buildings Using A Low Cost Wireless Sensor Network. , 2019, , .		3
50	Load Analysis of Topology-Unaware TDMA MAC Policies for Ad Hoc Networks. Lecture Notes in Computer Science, 2004, , 84-93.	1.0	3
51	Analysis of a topology control paradigm in WLAN/WPAN environments. Computer Communications, 2006, 29, 2096-2108.	3.1	2
52	Robust probabilistic information dissemination in energy harvesting wireless sensor networks. , 2014, , .		2
53	A braided routing mechanism to reduce traffic load's local variance in wireless sensor networks. , 2015, , .		2
54	Evaluation of a proposed minimum path impotence routing policy in wireless sensor networks. Ad Hoc Networks, 2019, 94, 101928.	3.4	2

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55	Scalable facility placement for communication cost reduction in wireless networks. , 2012, , .		1
56	A Wireless Sensor Network Innovative Architecture for Ambient Vibrations Structural Monitoring. Key Engineering Materials, 0, 628, 218-224.	0.4	1
57	Synchronization Issues in an Innovative Wireless Sensor Network Architecture Monitoring Ambient Vibrations in Historical Buildings. Key Engineering Materials, 0, 628, 225-230.	0.4	1
58	Constrained interest-based tour recommendations in large scale cultural heritage virtual environments. , 2015, , .		1
59	Analysis of Spectral Properties for Efficient Coverage Under Probabilistic Flooding. , 2018, , .		1
60	Random Walkers Coverage Experimentation and Evaluation in Low-Cost Wireless Home Networks. , 2019, , .		1
61	Implementation of a Low-Cost Vehicle Traffic Monitoring System in the Town of Corfu. , 2019, , .		1
62	A Cloud Gaming Architecture Leveraging Fog for Dynamic Load Balancing in Cluster-Based MMOs. , 2019, , .		1
63	Implementation of a Topology Independent MAC (TiMAC) Policy on a Low-Cost IoT System. Future Internet, 2020, 12, 86.	2.4	1
64	Evaluation of Epidemic-Based Information Dissemination in a Wireless Network Testbed. Technologies, 2020, 8, 36.	3.0	1
65	A Proposed Multi -Head Clustering Algorithm for VANET Environments. , 2021, , .		1
66	Smart Agriculture: A Low-Cost Wireless Sensor Network Approach. Springer Optimization and Its Applications, 2022, , 139-172.	0.6	1
67	Scalable communication cost reduction: The Chord case. , 2009, , .		0
68	Investigation of Information Dissemination Design Criteria in Large-Scale Network Environments. , 2009, , .		0
69	A study of a time-graph friendship model. , 2011, , .		0
70	Braided Routing Technique to Balance Traffic Load in Wireless Sensor Networks. International Journal of Monitoring and Surveillance Technologies Research, 2016, 4, 1-19.	0.3	0
71	A framework for cultural heritage content organisation, dissemination and communication in large-scale virtual environments. International Journal of Computational Intelligence Studies, 2016, 5, 71.	0.3	0
72	Average Load Definition in Random Wireless Sensor Networks: The Traffic Load Case. Technologies, 2018, 6, 112.	3.0	0

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73	Interaction and Information Communication in Virtual Museums. IOP Conference Series: Materials Science and Engineering, 2018, 364, 012038.	0.3	0
74	Performance Evaluation of a Proposed On-Demand Recharging Policy in Wireless Sensor Networks. , 2018, , .		0
75	Analysis of Concise "Average Load" Definitions in Uniformly Random Deployed Wireless Sensor Networks. , 2018, , .		0
76	Description of the Ionian University's Campus Wireless Network Testbed Infrastructure. , 2019, , .		0
77	Network Lifetime Extension Evaluation of Energy Harvesting and Clustering Approaches in WSNs. , 2019, , .		0
78	Constructing Minimal Maintenance Virtual Backbones over Low-Cost Wireless Networks. , 2019, , .		0
79	A Lifetime Extension Framework for Wireless Sensor Networks. , 2020, , .		0
80	Throughput Analysis of an Aloha-Based MAC Policy for Ad Hoc Networks. International Federation for Information Processing, 2006, , 219-223.	0.4	0
81	Braided Routing Technique to Balance Traffic Load in Wireless Sensor Networks. , 2020, , 837-855.		0
82	Constructing Budget Connected Dominating Sets in Large-Scale IoT Network Environments. , 2021, , .		0