

Christos Bouras

List of Publications by Year in descending order

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188
papers

1,413
citations

516710

16
h-index

642732

23
g-index

190
all docs

190
docs citations

190
times ranked

1036
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Approach to Energy Management in Large Passenger and Cruise Ships: Integrating Simulation and Machine Learning Models. Lecture Notes in Networks and Systems, 2022, , 209-228.	0.7	0
2	Prediction Mechanisms to Improve 5G Network User Allocation and Resource Management. Wireless Personal Communications, 2022, 122, 1455-1479.	2.7	2
3	Performance evaluation of monitoring IoT systems using LoRaWan. Telecommunication Systems, 2022, 79, 295-308.	2.5	3
4	Techno-economic analysis of providersâ€™ profit using Ultra-density in 5G networks. , 2022, , .		0
5	Classification of Greek Olive Oils from Different Regions by Machine Learning-Aided Laser-Induced Breakdown Spectroscopy and Absorption Spectroscopy. Molecules, 2021, 26, 1241.	3.8	17
6	Energy efficient mechanism for LoRa networks. Internet of Things (Netherlands), 2021, 13, 100360.	7.7	22
7	Laser-induced breakdown spectroscopy coupled with machine learning as a tool for olive oil authenticity and geographic discrimination. Scientific Reports, 2021, 11, 5360.	3.3	21
8	MAES_GR: A Web-Based, Spatially Enabled Field Survey Platform for the MAES Implementation in Greece. Land, 2021, 10, 381.	2.9	5
9	Exploring the energy efficiency for Search and Rescue operations over LoRa. , 2021, , .		3
10	Spreading Factor Selection Mechanism for Transmission over LoRa Networks. , 2021, , .		1
11	A Laser-Based Method for the Detection of Honey Adulteration. Applied Sciences (Switzerland), 2021, 11, 6435.	2.5	7
12	Discrimination of olive oils based on the olive cultivar origin by machine learning employing the fusion of emission and absorption spectroscopic data. Food Control, 2021, 130, 108318.	5.5	10
13	Energy Efficient Mechanism over LoRa for Search and Rescue operations. , 2021, , .		0
14	Using NOMA Scheme for the Management of Interference and the Improvement of Performance in 5G Networks. , 2021, , .		0
15	Techno-economic comparison of MIMO and DAS cost models in 5G networks. Wireless Networks, 2020, 26, 1-15.	3.0	26
16	Geolocation analysis for Search And Rescue systems using LoRaWAN. International Journal of Communication Systems, 2020, 33, e4593.	2.5	4
17	A Resource-Efficient Approach on User Association in 5G Networks Using Downlink and Uplink Decoupling. International Journal of Wireless Networks and Broadband Technologies, 2020, 9, 43-59.	1.0	0
18	Towards an informative simulation-based application for energy saving in large passenger and cruise ships. , 2020, , .		2

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19	Techno-economic Comparison of Cognitive Radio and Software Defined Network (SDN) Cost Models in 5G Networks. <i>Wireless Personal Communications</i> , 2020, 114, 1403-1430.	2.7	3
20	Blending Simulation and Machine Learning Models to Advance Energy Management in Large Ships. , 2020, , .		1
21	Efficient 5G Network Decoupling Using Dynamic Modulation and Coding Scheme Selection. <i>Lecture Notes in Networks and Systems</i> , 2020, , 253-265.	0.7	0
22	Techno-Economic Analysis of MMWave vs Mid-Band Spectrum in 5G Networks. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 90-105.	0.6	4
23	An online tool on sustainable water management. <i>Tourism</i> , 2020, 68, 450-465.	0.9	3
24	A QoS driven adaptive mechanism for downlink and uplink decoupling in 5G. <i>Internet of Things (Netherlands)</i> , 2020, 11, 100217.	7.7	2
25	WiFiMon. <i>International Journal of Wireless Networks and Broadband Technologies</i> , 2019, 8, 1-18.	1.0	1
26	Evolving AL-FEC Application Towards 5G NGMN. , 2018, , .		2
27	MCS selection exploiting femtocell utilization in multicast transmissions. <i>International Journal of Communication Systems</i> , 2018, 31, e3585.	2.5	0
28	Peer-to-peer live video streaming with rateless codes for massively multiplayer online games. <i>Peer-to-Peer Networking and Applications</i> , 2018, 11, 44-62.	3.9	13
29	Performance evaluation of LoraWan physical layer integration on IoT devices. , 2018, , .		7
30	Techno-economic analysis of MIMO & DAS in 5G. , 2018, , .		4
31	DAS Modifications for More Efficient Network Cost in 5G. , 2018, , .		0
32	Exploring SDN & NFV in 5G Using ONOS & POX Controllers. <i>International Journal of Interdisciplinary Telecommunications and Networking</i> , 2018, 10, 46-60.	0.3	1
33	Improving news articles recommendations via user clustering. <i>International Journal of Machine Learning and Cybernetics</i> , 2017, 8, 223-237.	3.6	20
34	SDN & NFV in 5G: Advancements and challenges. , 2017, , .		50
35	Energy efficiency in sleep mode for 5G femtocells. , 2017, , .		12
36	Interference Management Strategy for 5G Femtocell Clusters. <i>Wireless Personal Communications</i> , 2017, 96, 323-339.	2.7	2

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37	WiFiMon app measuring Wi-Fi performance as experienced by end-users. , 2017, , .		1
38	Teaching network security in mobile 5G using ONOS SDN controller. , 2017, , .		5
39	Dense Deployments and DAS in 5G: A Techno-Economic Comparison. Wireless Personal Communications, 2017, 94, 1777-1797.	2.7	15
40	Analyzing Small-Cells and Distributed Antenna Systems from Techno-Economic Perspective. International Journal of Wireless Networks and Broadband Technologies, 2017, 6, 45-64.	1.0	3
41	Assisting cluster coherency via n-grams and clustering as a tool to deal with the new user problem. International Journal of Machine Learning and Cybernetics, 2016, 7, 171-184.	3.6	8
42	Efficient Mechanisms and Performance Analysis of Routing Protocols in VANETs for Realistic Scenarios. International Journal of Interdisciplinary Telecommunications and Networking, 2016, 8, 20-49.	0.3	1
43	Transmission optimizing on dense femtocell deployments in 5G. International Journal of Communication Systems, 2016, 29, 2388-2402.	2.5	4
44	Cost modeling for SDN/NFV based mobile 5G networks. , 2016, , .		51
45	Coordination Strategy for Dense 5G Femtocell Deployments. , 2016, , .		0
46	Comparison of Point to Point and MBSFN transmissions in Next Generation Mobile Networks. , 2016, , .		1
47	Sensitivity analysis of small cells and DAS techno-economic models in mobile 5G. , 2016, , .		6
48	Utilization of hybrid access femtocells during multicast transmissions in mobile networks. , 2016, , .		1
49	Mobility-aware power control in MBSFN. Telecommunication Systems, 2016, 61, 77-91.	2.5	2
50	Science parks and regional innovation performance in fiscal austerity era: Less is more?. Small Business Economics, 2016, 47, 313-330.	6.7	26
51	Implementing Advanced Characteristics of X3D Collaborative Virtual Environments for Supporting e-Learning. , 2016, , 2215-2240.		0
52	Techno-economic analysis of ultra-dense and DAS deployments in mobile 5G. , 2015, , .		18
53	A novel tool for cost-efficient broadband development through infrastructure sharing. , 2015, , .		0
54	Resource Management in 5G Femtocell Networks. , 2015, , .		5

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55	Optimizing Hybrid Access Femtocell Clusters in 5G Networks. , 2015, , .		6
56	A Signal Adaptation Mechanism for Power Optimization of Wireless Adapters. International Journal of Wireless Networks and Broadband Technologies, 2015, 4, 48-72.	1.0	0
57	Broadband and e-Government Services in South East Europe. International Journal of Interdisciplinary Telecommunications and Networking, 2014, 6, 39-56.	0.3	2
58	A Framework for Cross-Platform Mobile Web Applications Using HTML5. , 2014, , .		6
59	Femtocells coordination in future hybrid access deployments. , 2014, , .		2
60	Comparative analysis of broadband penetration and digital public services in South East Europe. , 2014, , .		2
61	An adaptive weighted online AL-FEC algorithm over mobile multicast networks. , 2014, , .		3
62	A Simulation Framework for Evaluating Interference Mitigation Techniques in Heterogeneous Cellular Environments. Wireless Personal Communications, 2014, 77, 1213-1237.	2.7	25
63	Deploying AL-FEC protection with online algorithms for multicast services over cellular networks. Wireless Networks, 2014, 20, 2109-2122.	3.0	0
64	Power Efficient Group Communication in Small Cell Networks. Procedia Computer Science, 2014, 40, 17-25.	2.0	0
65	Financing and Pricing Small Cells in Next-Generation Mobile Networks. Lecture Notes in Computer Science, 2014, , 41-54.	1.3	19
66	Economic Broadband Development through Infrastructure Sharing. International Journal of Business Data Communications and Networking, 2014, 10, 21-42.	0.7	1
67	Application layer forward error correction for multicast streaming over LTE networks. International Journal of Communication Systems, 2013, 26, 1459-1474.	2.5	29
68	Selecting the Optimal Fractional Frequency Reuse Scheme in Long Term Evolution Networks. Wireless Personal Communications, 2013, 71, 2693-2712.	2.7	28
69	Embracing RaptorQ FEC in 3GPP multicast services. Wireless Networks, 2013, 19, 1023-1035.	3.0	11
70	Evaluation of femtocells interference mitigation techniques over ICIC coordinated LTE-a networks. , 2013, , .		4
71	Feedback-Based Adaptation for Improved Power Consumption. , 2013, , .		2
72	Efficient MCS selection mechanisms for multicasting over LTE networks. , 2013, , .		5

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73	A competitive AL-FEC framework over mobile multicast delivery. , 2013, , .		5
74	A tool for automating network simulation and processing tracing data files. Simulation Modelling Practice and Theory, 2013, 30, 90-110.	3.8	14
75	Methodology for Public Administrators for selecting between open source and proprietary software. Telematics and Informatics, 2013, 30, 100-110.	5.8	11
76	A Power Control Mechanism Based on Priority Grouping for Small Cell Networks. , 2013, , .		6
77	A simulation framework for LTE-A systems with femtocell overlays. , 2012, , .		28
78	Clustering to Deal with the New User Problem. , 2012, , .		4
79	Peer-to-peer live streaming for Massively Multiplayer Online Games. , 2012, , .		4
80	Genetic optimization for Spectral Efficient multicasting in LTE systems. , 2012, , .		5
81	Evaluating RaptorQ FEC over 3GPP multicast services. , 2012, , .		12
82	Performance improvement of Distributed Virtual Environments by exploiting objectsâ€™ attributes. Virtual Reality, 2012, 16, 187-203.	6.1	2
83	Optimization of fractional frequency reuse in long term evolution networks. , 2012, , .		29
84	A performance study of Fractional Frequency Reuse in OFDMA networks. , 2012, , .		12
85	Enhancing meta-portals using dynamic user context personalization techniques. Journal of Network and Computer Applications, 2012, 35, 1446-1453.	9.1	5
86	A clustering technique for news articles using WordNet. Knowledge-Based Systems, 2012, 36, 115-128.	7.1	50
87	Interference management in LTE femtocell systems using an adaptive frequency reuse scheme. , 2012, , .		37
88	Enhancing reliable mobile multicasting with RaptorQ FEC. , 2012, , .		4
89	Building Community and Collaboration Applications for MMOGs. International Journal of Computer Games Technology, 2012, 2012, 1-13.	2.5	1
90	Performance evaluation of ad hoc routing protocols for military communications. International Journal of Network Management, 2012, 22, 216-234.	2.2	3

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91	TFMCC versus ASMP: lessons learned from performance evaluation. International Journal of Network Management, 2012, 22, 349-372.	2.2	0
92	Modulation and coding scheme selection in multimedia broadcast over a single frequency network-enabled long-term evolution networks. International Journal of Communication Systems, 2012, 25, 1603-1619.	2.5	18
93	Performance evaluation of LTE for MBSFN transmissions. Wireless Networks, 2012, 18, 227-240.	3.0	14
94	Cost optimization of MBSFN and PTM transmissions for reliable multicasting in LTE networks. Wireless Networks, 2012, 18, 277-293.	3.0	4
95	The TFRC Protocol and Its Usage for Wireless Video Transmission. , 2012, , 764-781.		0
96	Clustering User Preferences Using W-kmeans. , 2011, , .		12
97	Interference behavior of integrated femto and macrocell environments. , 2011, , .		12
98	Performance evaluation of routing protocols for multimedia transmission over mobile ad hoc networks. , 2011, , .		23
99	Reliable multicasting over LTE: A performance study. , 2011, , .		3
100	Optimizing the combination of MBSFN and PTM transmissions in LTE systems. , 2011, , .		3
101	Adaptive Smooth Simulcast Protocol (ASSP) for Video Applications: Description and Performance Evaluation. Journal of Network and Systems Management, 2011, 19, 143-177.	4.9	4
102	Exploiting MIMO Technology for Optimal MBMS Power Allocation. Wireless Personal Communications, 2011, 61, 447-464.	2.7	1
103	Power management adaptation techniques for video transmission over TFRC. International Journal of Network Management, 2011, 21, 414-431.	2.2	1
104	A study of forward error correction for mobile multicast. International Journal of Communication Systems, 2011, 24, 607-627.	2.5	22
105	Combining MBSFN and PTM Transmission Schemes for Resource Efficiency in LTE Networks. Lecture Notes in Computer Science, 2011, , 56-67.	1.3	6
106	Communication cost analysis of MBSFN in LTE. , 2010, , .		24
107	Spectral efficiency performance of MBSFN-enabled LTE networks. , 2010, , .		26
108	Enhancing FEC application in LTE cellular networks. , 2010, , .		7

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109	Noun retrieval effect on text summarization and delivery of personalized news articles to the user's desktop. <i>Data and Knowledge Engineering</i> , 2010, 69, 664-677.	3.4	10
110	Adaptation of RSS feeds based on the user profile and on the end device. <i>Journal of Network and Computer Applications</i> , 2010, 33, 410-421.	9.1	3
111	An Efficient Mechanism for UMTS Multicast Routing. <i>Mobile Networks and Applications</i> , 2010, 15, 802-815.	3.3	0
112	An improved MBMS power counting mechanism towards long term evolution. <i>Telecommunication Systems</i> , 2010, 43, 109-119.	2.5	8
113	An improved mechanism for multiple MBMS sessions assignment in B3G cellular networks. <i>Wireless Networks</i> , 2010, 16, 671-686.	3.0	7
114	Image Extraction from Online Text Streams: A Straightforward Template Independent Approach without Training. , 2010, , .		1
115	Efficient Power Management Adaptation for Video Transmission over TFRC. , 2010, , .		3
116	Adopting forward error correction for multicasting over cellular networks. , 2010, , .		9
117	The Impact of FEC on Mobile Multicast Power Control. , 2010, , .		4
118	THE MULTIMEDIA BROADCAST/MULTICAST SERVICE OF THE UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM. , 2010, , 43-77.		0
119	Dynamic user context web personalization in meta-portals. , 2010, , .		2
120	Performance evaluation of MPEG-4 video transmission with the Adaptive Smooth Multicast Protocol (ASMP). , 2010, , .		1
121	Efficient extraction of news articles based on RSS crawling. , 2010, , .		11
122	Efficient MCS selection for MBSFN transmissions over LTE networks. , 2010, , .		28
123	Assigning Web News to Clusters. , 2010, , .		12
124	W-kmeans: Clustering News Articles Using WordNet. <i>Lecture Notes in Computer Science</i> , 2010, , 379-388.	1.3	14
125	An Efficient Mechanism for Stemming and Tagging: The Case of Greek Language. <i>Lecture Notes in Computer Science</i> , 2010, , 389-397.	1.3	10
126	Adopting FEC for reliable multicasting over Lte networks. , 2010, , .		1

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127	Efficient Power Allocation in E-MBMS Enabled 4G Networks. , 2010, , 458-488.		0
128	ADAPTIVE MULTIMEDIA TRANSMISSION OVER THE INTERNET. , 2010, , 589-606.		1
129	An Efficient Mechanism for Power Control Optimization in MBMS Enabled UTRAN. , 2009, , .		2
130	CUTER: An Efficient Useful Text Extraction Mechanism. , 2009, , .		10
131	Optimal MBMS Power Allocation Exploiting MIMO in LTE Networks. , 2009, , .		4
132	Networking Aspects for the Security of Game Input. , 2009, , .		0
133	Adaptive smooth multicast protocol for multimedia transmission: Implementation details and performance evaluation. International Journal of Communication Systems, 2009, 23, n/a-n/a.	2.5	8
134	Performance analysis of relative service using TCP-aware marking and dynamic WRED. International Journal of Communication Systems, 2009, 22, 277-305.	2.5	1
135	A study of multicast congestion control for UMTS. International Journal of Communication Systems, 2009, 22, 739-754.	2.5	1
136	Architectures and performance evaluation of bandwidth brokers. International Journal of Network Management, 2009, 19, 101-117.	2.2	4
137	QoS experiences in native IPv6 networks. International Journal of Network Management, 2009, 19, 119-137.	2.2	6
138	Cost analysis and efficient radio bearer selection for multicasting over UMTS. Wireless Communications and Mobile Computing, 2009, 9, 1159-1172.	1.2	0
139	An enhanced MBMS power control mechanism towards Long Term Evolution. , 2009, , .		5
140	Evaluation of Single Rate Multicast Congestion Control Schemes for MPEG-4 Video Transmission. , 2009, , .		6
141	Utilizing RSS Feeds for Crawling the Web. , 2009, , .		3
142	Personalized News Search in WWW: Adapting on User's Behavior. , 2009, , .		1
143	Adaptive Smooth Simulcast Protocol for multimedia transmission. , 2009, , .		1
144	Personalization Mechanism for Delivering News Articles on the User's Desktop. , 2009, , .		5

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145	Optimizing MBMS Power Allocation through HSDPA Transmissions. , 2009, , .		0
146	A Framework Model for DVEs using SIMUL8. , 2009, , .		3
147	An Efficient Mechanism for Multicast Data Transmission in UMTS. Wireless Personal Communications, 2008, 44, 455-471.	2.7	1
148	Multicast in UMTS: evaluation and recommendations. Wireless Communications and Mobile Computing, 2008, 8, 463-481.	1.2	11
149	PerSSonalâ€™s core functionality evaluation: Enhancing text labeling through personalized summaries. Data and Knowledge Engineering, 2008, 64, 330-345.	3.4	19
150	Power saving methods for MBMS transmissions in UTRAN. , 2008, , .		0
151	Networking Aspects for Gaming Systems. , 2008, , .		4
152	Performance study of the Mobile IPv6 protocol and its variations. , 2008, , .		0
153	Comparison of Single-Rate Multicast Congestion Control Protocols vs. ASMP. , 2008, , .		6
154	Smooth Multicast Congestion Control for Adaptive Multimedia Transmission. , 2008, , .		6
155	Efficient delivery of MBMS multicast traffic over HSDPA. , 2008, , .		2
156	Improving Text Summarization Using Noun Retrieval Techniques. Lecture Notes in Computer Science, 2008, , 593-600.	1.3	11
157	Efficient Assignment of Multiple MBMS Sessions in B3G Networks. , 2008, , .		4
158	Extending the QoS provisioning in GRNET. , 2008, , .		0
159	Extending the Functionality of RTP/RTCP Implementation in Network Simulator (NS-2) to support TCP friendly congestion control. , 2008, , .		10
160	The Design and Implementation of Business Models in Metropolitan Broadband Networks. , 2008, , 196-210.		1
161	Multicast of Multimedia Data. , 2008, , 1781-1788.		0
162	Evaluation of the Multicast Mode of MBMS. , 2007, , .		4

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163	Business Models for Broadband Municipal Optical Networks: A Proposed Model for the Greek Case. Proceedings - International Symposium on Computers and Communications, 2007, , .	0.0	3
164	An Object Driven Partitioning Approach for Distributed Virtual Environments. , 2007, , .		1
165	MBMS Power Planning in Macro and Micro Cell Environments. Proceedings - International Symposium on Computers and Communications, 2007, , .	0.0	4
166	A Power Control Scheme for Efficient Radio Bearer Selection in MBMS. , 2007, , .		24
167	Cost Analysis of the MBMS Multicast Mode of UMTS. Proceedings - International Symposium on Computers and Communications, 2007, , .	0.0	1
168	Exploiting virtual objects' attributes and avatar's behavior in DVEs partitioning. , 2007, , .		0
169	Adaptive and reliable video transmission over UMTS for enhanced performance. International Journal of Communication Systems, 2007, 20, 65-81.	2.5	13
170	Scalable rate control for video transmission over UMTS. International Journal of Communication Systems, 2007, 20, 1315-1335.	2.5	7
171	Multicast in UMTS: Adopting TCP-Friendliness. , 2007, , 433-444.		3
172	An Object Driven Partitioning Approach for Distributed Virtual Environments. , 2007, , .		0
173	Pathfinding architectures for interdomain Bandwidth Broker operation. , 2006, , .		1
174	A delay-based analytical provisioning model for a QoS-enabled service. , 2006, , .		2
175	An efficient multicast packet delivery scheme for UMTS. , 2006, , .		9
176	Service level agreements for DiffServ-based services' provisioning. Journal of Network and Computer Applications, 2005, 28, 285-302.	9.1	21
177	Estimating and eliminating redundant data transfers over the web: a fragment based approach. International Journal of Communication Systems, 2005, 18, 119-142.	2.5	4
178	MULTIMEDIA TRANSMISSION OVER THIRD GENERATION CELLULAR NETWORKS. , 2005, , .		3
179	Predictive Prefetching on the Web and Its Potential Impact in the Wide Area. World Wide Web, 2004, 7, 143-179.	4.0	39
180	Providing and verifying advanced IP services in hierarchical DiffServ networks-the case of GEANT. International Journal of Communication Systems, 2004, 17, 321-336.	2.5	6

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181	SLA-based QoS pricing in DiffServ networks. <i>Computer Communications</i> , 2004, 27, 1868-1880.	5.1	13
182	Performance Evaluation of a Hybrid Run-Time Management Policy for Data Intensive Web Sites. <i>World Wide Web</i> , 2003, 6, 23-47.	4.0	2
183	Performance issues of bandwidth management in ATM networks. <i>International Journal of Communication Systems</i> , 2003, 16, 151-169.	2.5	1
184	Competitive video on demand schedulers for popular movies. <i>Discrete Applied Mathematics</i> , 2003, 129, 49-61.	0.9	8
185	STEPS: Supporting Traditional Education Proceduresâ€™ A TCP/IP Multimedia Networks-Based Model. <i>Multimedia Tools and Applications</i> , 2002, 16, 251-276.	3.9	1
186	Queueing delays in buffered multistage interconnection networks. <i>Performance Evaluation Review</i> , 1987, 15, 111-121.	0.6	6
187	Multimedia Broadcasting in LTE Networks. , 0, , 269-289.		3
188	The TFRC Protocol and Its Usage for Wireless Video Transmission. <i>Advances in Wireless Technologies and Telecommunication Book Series</i> , 0, , 300-317.	0.4	0