

Ioannis Chatzigiannakis

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

148 papers	1,888 citations	22 h-index	35 g-index
174 ext. papers	2,261 ext. citations	2 avg, IF	5.03 L-index

#	Paper	IF	Citations
148	Identifying Water Consumption Patterns in Education Buildings Before, During and After COVID-19 Lockdown Periods 2021 ,		1
147	Design, Analysis, and Experimental Evaluation of a New Secure Rejoin Mechanism for LoRaWAN Using Elliptic-Curve Cryptography. <i>Journal of Sensor and Actuator Networks</i> , 2021 , 10, 36	3.8	1
146	Enhancing shopping experiences in smart retailing. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021 , 1-19	3.7	7
145	Internet of Everything 2021 , 21-56		
144	On Refining Design Patterns for Smart Contracts. <i>Lecture Notes in Computer Science</i> , 2020 , 228-239	0.9	
143	Modeling and Forecasting Gender-Based Violence through Machine Learning Techniques. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8244	2.6	7
142	A Smart Water Metering Deployment Based on the Fog Computing Paradigm. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1965	2.6	6
141	Exploiting Gamification to Improve Eco-driving Behaviour: The GameCAR Approach. <i>Electronic Notes in Theoretical Computer Science</i> , 2019 , 343, 103-116	0.7	8
140	IoT sensors in sea water environment: Ahoy! Experiences from a short summer trial. <i>Electronic Notes in Theoretical Computer Science</i> , 2019 , 343, 117-130	0.7	12
139	Fog-Computing-Based Heartbeat Detection and Arrhythmia Classification Using Machine Learning. <i>Algorithms</i> , 2019 , 12, 32	1.8	16
138	Utilising fog computing for developing a person-centric heart monitoring system. <i>Journal of Ambient Intelligence and Smart Environments</i> , 2019 , 11, 237-259	2.2	6
137	Utility of Big Data in Predicting Short-Term Blood Glucose Levels in Type 1 Diabetes Mellitus Through Machine Learning Techniques. <i>Sensors</i> , 2019 , 19,	3.8	27
136	On the Possibility of Predicting Glycaemia TOn the FlyTwth Constrained IoT Devices in Type 1 Diabetes Mellitus Patients. <i>Sensors</i> , 2019 , 19,	3.8	16
135	Enhancing an Eco-Driving Gamification Platform Through Wearable and Vehicle Sensor Data Integration. <i>Lecture Notes in Computer Science</i> , 2019 , 344-349	0.9	
134	Data-Driven Intrusion Detection for Ambient Intelligence. <i>Lecture Notes in Computer Science</i> , 2019 , 235-259		1
133	Enhanced Buying Experiences in Smart Cities: The SMARTBUY Approach. <i>Lecture Notes in Computer Science</i> , 2019 , 108-122	0.9	4
132	Observation and Analysis of Environmental Factors of Surface Waters: An Internet of Things Educational Approach 2019 ,		1

131	Citizens Vote to Act: smart contracts for the management of water resources in smart cities 2019 ,		2
130	Brief Announcement: Providing End-to-End Secure Communication in Low-Power Wide Area Networks. <i>Lecture Notes in Computer Science</i> , 2018 , 101-104	0.9	6
129	Design and Analysis of Adaptive Hierarchical Low-Power Long-Range Networks. <i>Journal of Sensor and Actuator Networks</i> , 2018 , 7, 51	3.8	6
128	Enabling Sustainability and Energy Awareness in Schools Based on IoT and Real-World Data. <i>IEEE Pervasive Computing</i> , 2018 , 17, 53-63	1.3	22
127	Raising Awareness for Water Pollution Based on Game Activities Using Internet of Things. <i>Lecture Notes in Computer Science</i> , 2018 , 171-187	0.9	5
126	Uncertainty Management for Wearable IoT Wristband Sensors Using Laplacian-Based Matrix Completion 2018 ,		1
125	Utilising Fog Computing for Developing a Person-Centric Heart Monitoring System 2018 ,		4
124	Out of the Box: Using Gamification Cards to Teach Ideation to Engineering Students. <i>Lecture Notes in Computer Science</i> , 2018 , 221-226	0.9	2
123	Towards an Architecture to Guarantee Both Data Privacy and Utility in the First Phases of Digital Clinical Trials. <i>Sensors</i> , 2018 , 18,	3.8	9
122	Scenarios for Educational and Game Activities using Internet of Things Data 2018 ,		2
121	On Mining IoT Data for Evaluating the Operation of Public Educational Buildings 2018 ,		1
120	A Fog Computing-Oriented, Highly Scalable IoT Framework for Monitoring Public Educational Buildings 2018 ,		4
119	Open source IoT meter devices for smart and energy-efficient school buildings. <i>HardwareX</i> , 2017 , 1, 54-67	2.7	62
118	The Dynamics and Stability of Probabilistic Population Processes. <i>Lecture Notes in Computer Science</i> , 2017 , 33-45	0.9	
117	On the Deployment of Healthcare Applications over Fog Computing Infrastructure 2017 ,		34
116	The role of blockchain and IoT in recruiting participants for digital clinical trials 2017 ,		40
115	Design and Evaluation of a Person-Centric Heart Monitoring System over Fog Computing Infrastructure 2017 ,		11
114	Privacy preserving data management in recruiting participants for digital clinical trials 2017 ,		13

113	Delivering elder-care environments utilizing TV-channel based mechanisms. <i>Journal of Ambient Intelligence and Smart Environments</i> , 2017 , 9, 783-798	2.2	6
112	Enabling stream processing for people-centric IoT based on the fog computing paradigm 2017 ,		6
111	An IoT-Based Solution for Monitoring a Fleet of Educational Buildings Focusing on Energy Efficiency. <i>Sensors</i> , 2017 , 17,	3.8	37
110	A privacy-preserving smart parking system using an IoT elliptic curve based security platform. <i>Computer Communications</i> , 2016 , 89-90, 165-177	5.1	70
109	Apps for smart buildings 2016 , 465-479		3
108	Routing Protocols for Delay Tolerant Networks: A Reference Architecture and a Thorough Quantitative Evaluation. <i>Journal of Sensor and Actuator Networks</i> , 2016 , 5, 6	3.8	9
107	A Glimpse at Paul G. Spirakis. <i>Lecture Notes in Computer Science</i> , 2015 , 3-24	0.9	
106	A collective awareness platform for energy efficient smart buildings 2015 ,		3
105	Patriot 2015 ,		3
104	Resource and service virtualisation in M2M and IoT platforms. <i>International Journal of Intelligent Engineering Informatics</i> , 2015 , 3, 205	0.3	5
103	Green mindset 2015 ,		1
102	Applying a customer centric development approach for web 2.0 applications 2015 ,		1
101	Advanced observation and telemetry heart system utilizing wearable ECG device and a Cloud platform 2015 ,		7
100	Pioneering the Establishment of the Foundations of the Internet of Things. <i>Lecture Notes in Computer Science</i> , 2015 , 154-168	0.9	
99	Symmetric Coherent Link Degree, Adaptive Throughput-Transmission Power for Wireless Sensor Networks 2014 ,		1
98	Design and evaluation of a real-time locating system for wireless sensor networks. <i>Journal of Location Based Services</i> , 2014 , 8, 97-122	1.9	2
97	Counting in Anonymous Dynamic Networks under Worst-Case Adversary 2014 ,		5
96	Causality, influence, and computation in possibly disconnected synchronous dynamic networks. <i>Journal of Parallel and Distributed Computing</i> , 2014 , 74, 2016-2026	4.4	16

95	Developing Smart Homes Using the Internet of Things: How to demonstrate Your System. <i>Lecture Notes in Computer Science</i> , 2014 , 415-426	0.9	11
94	Conscious and Unconscious Counting on Anonymous Dynamic Networks. <i>Lecture Notes in Computer Science</i> , 2014 , 257-271	0.9	14
93	Counting in Anonymous Dynamic Networks: An Experimental Perspective. <i>Lecture Notes in Computer Science</i> , 2014 , 139-154	0.9	4
92	The computational power of simple protocols for self-awareness on graphs. <i>Theoretical Computer Science</i> , 2013 , 512, 98-118	1.1	2
91	Developing an IoT Smart City framework 2013 ,		57
90	Naming and Counting in Anonymous Unknown Dynamic Networks. <i>Lecture Notes in Computer Science</i> , 2013 , 281-295	0.9	15
89	Counting the Number of Homonyms in Dynamic Networks. <i>Lecture Notes in Computer Science</i> , 2013 , 311-325	0.9	3
88	Temporal Network Optimization Subject to Connectivity Constraints. <i>Lecture Notes in Computer Science</i> , 2013 , 657-668	0.9	22
87	Making P-Space Smart: Integrating IoT Technologies in a Multi-office Environment. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2013 , 31-44	0.2	2
86	Post-processing in wireless sensor networks: Benchmarking sensor trace files for in-network data aggregation. <i>Journal of Network and Computer Applications</i> , 2012 , 35, 548-561	7.9	3
85	True self-configuration for the IoT 2012 ,		29
84	Controlling Physical Objects via the Internet using the Arduino Platform over 802.15.4 Networks. <i>IEEE Latin America Transactions</i> , 2012 , 10, 1686-1689	0.7	22
83	Terminating Population Protocols via Some Minimal Global Knowledge Assumptions. <i>Lecture Notes in Computer Science</i> , 2012 , 77-89	0.9	5
82	Adaptive Hierarchical Network Structures for Wireless Sensor Networks. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2012 , 65-80	0.2	
81	ROTA: An Archipelago-Wide Area Network for High Speed Communication to Ships 2012 ,		1
80	Flexible experimentation in wireless sensor networks. <i>Communications of the ACM</i> , 2012 , 55, 82-90	2.5	71
79	Using Future Internet Infrastructure and Smartphones for Mobility Trace Acquisition and Social Interactions Monitoring. <i>Lecture Notes in Computer Science</i> , 2012 , 117-129	0.9	2
78	Brief Announcement: Naming and Counting in Anonymous Unknown Dynamic Networks. <i>Lecture Notes in Computer Science</i> , 2012 , 437-438	0.9	7

77	Causality, Influence, and Computation in Possibly Disconnected Synchronous Dynamic Networks. <i>Lecture Notes in Computer Science</i> , 2012 , 269-283	0.9	9
76	Passively mobile communicating machines that use restricted space. <i>Theoretical Computer Science</i> , 2011 , 412, 6469-6483	1.1	31
75	Implementing multiplayer pervasive installations based on mobile sensing devices: Field experience and user evaluation from a public showcase. <i>Journal of Systems and Software</i> , 2011 , 84, 1989-2004	3.3	17
74	Distributed algorithm engineering for networks of tiny artifacts. <i>Computer Science Review</i> , 2011 , 5, 85-102	8.3	10
73	Streaming techniques and data aggregation in networks of tiny artefacts. <i>Computer Science Review</i> , 2011 , 5, 27-46	8.3	4
72	Mediated population protocols. <i>Theoretical Computer Science</i> , 2011 , 412, 2434-2450	1.1	61
71	Building a Platform-Agnostic Wireless Network of Interconnected Smart Objects 2011 ,		2
70	Elliptic Curve Based Zero Knowledge Proofs and their Applicability on Resource Constrained Devices 2011 ,		22
69	Computational models for networks of tiny artifacts: A survey. <i>Computer Science Review</i> , 2011 , 5, 7-25	8.3	9
68	Urban pervasive applications: Challenges, scenarios and case studies. <i>Computer Science Review</i> , 2011 , 5, 103-118	8.3	22
67	New Models for Population Protocols. <i>Synthesis Lectures on Distributed Computing Theory</i> , 2011 , 2, 1-156		21
66	Monitoring physical space using mobile phones for inferring social and contextual interactions 2011 ,		2
65	Passively mobile communicating machines that use restricted space 2011 ,		5
64	The Computational Power of Simple Protocols for Self-awareness on Graphs. <i>Lecture Notes in Computer Science</i> , 2011 , 135-147	0.9	
63	Distributed Game-Theoretic Vertex Coloring. <i>Lecture Notes in Computer Science</i> , 2010 , 103-118	0.9	9
62	A Web Services-oriented Architecture for Integrating Small Programmable Objects in the Web of Things 2010 ,		16
61	WISEBED: An Open Large-Scale Wireless Sensor Network Testbed. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2010 , 68-87	0.2	31
60	Wiselib: A Generic Algorithm Library for Heterogeneous Sensor Networks. <i>Lecture Notes in Computer Science</i> , 2010 , 162-177	0.9	20

59	Virtualising Testbeds to Support Large-Scale Reconfigurable Experimental Facilities. <i>Lecture Notes in Computer Science</i> , 2010 , 210-223	0.9	14
58	All Symmetric Predicates in NSPACE(n^2) Are Stably Computable by the Mediated Population Protocol Model. <i>Lecture Notes in Computer Science</i> , 2010 , 270-281	0.9	7
57	Algorithmic Verification of Population Protocols. <i>Lecture Notes in Computer Science</i> , 2010 , 221-235	0.9	14
56	Stably Decidable Graph Languages by Mediated Population Protocols. <i>Lecture Notes in Computer Science</i> , 2010 , 252-266	0.9	3
55	Fun with Games. <i>Lecture Notes in Computer Science</i> , 2010 , 4-15	0.9	
54	Experimental Evaluation of Duplicate Insensitive Counting Algorithms 2009 ,		1
53	The Design of an Environment for Monitoring and Controlling Remote Sensor Networks. <i>International Journal of Distributed Sensor Networks</i> , 2009 , 5, 262-282	1.7	6
52	Developing multiplayer pervasive games and networked interactive installations using ad hoc mobile sensor nets 2009 ,		8
51	Mediated Population Protocols. <i>Lecture Notes in Computer Science</i> , 2009 , 363-374	0.9	13
50	Recent Advances in Population Protocols. <i>Lecture Notes in Computer Science</i> , 2009 , 56-76	0.9	9
49	Brief Announcement: Decidable Graph Languages by Mediated Population Protocols. <i>Lecture Notes in Computer Science</i> , 2009 , 239-240	0.9	6
48	Not All Fair Probabilistic Schedulers Are Equivalent. <i>Lecture Notes in Computer Science</i> , 2009 , 33-47	0.9	10
47	A software platform for developing multi-player pervasive games using small programmable object technologies 2008 ,		1
46	Adaptive probabilistic secure routing in mobile wireless sensor networks 2008 ,		4
45	TRAILS, a Toolkit for Efficient, Realistic and Evolving Models of Mobility, Faults and Obstacles in Wireless Networks. <i>Simulation Symposium, Proceedings of the Annual</i> , 2008 ,		12
44	The Dynamics of Adaptive Networked Societies of Tiny Artefacts 2008 ,		1
43	Adaptive Energy Management for Incremental Deployment of Heterogeneous Wireless Sensors. <i>Theory of Computing Systems</i> , 2008 , 42, 42-72	0.6	4
42	Efficient data propagation strategies in wireless sensor networks using a single mobile sink. <i>Computer Communications</i> , 2008 , 31, 896-914	5.1	97

41	A mobility aware protocol synthesis for efficient routing in ad hoc mobile networks. <i>Computer Networks</i> , 2008 , 52, 130-154	5.4	20
40	A Security Model for Internet-Based Digital Asset Management Systems. <i>Lecture Notes in Computer Science</i> , 2008 , 326-329	0.9	0
39	Probabilistic Protocols for Fair Communication in Wireless Sensor Networks. <i>Lecture Notes in Computer Science</i> , 2008 , 100-110	0.9	
38	The Dynamics of Probabilistic Population Protocols. <i>Lecture Notes in Computer Science</i> , 2008 , 498-499	0.9	13
37	Fault-tolerant and efficient data propagation in wireless sensor networks using local, additional network information. <i>Journal of Parallel and Distributed Computing</i> , 2007 , 67, 456-473	4.4	8
36	2007 ,		7
35	A peer-to-peer environment for monitoring multiple wireless sensor networks 2007 ,		5
34	Fast and energy efficient sensor data collection by multiple mobile sinks 2007 ,		24
33	Design, Analysis and Performance Evaluation of Group Key Establishment in Wireless Sensor Networks. <i>Electronic Notes in Theoretical Computer Science</i> , 2007 , 171, 17-31	0.7	12
32	50 ways to build your application: A survey of middleware and systems for Wireless Sensor Networks 2007 ,		21
31	A Model for Obstacles to be used in Simulations of Wireless Sensor Networks and its Application in studying Routing Protocol Performance. <i>Simulation</i> , 2007 , 83, 587-608	1.2	6
30	Adaptive techniques for proactive collision avoidance for multi-path data propagation in wireless sensor networks. <i>Performance Evaluation</i> , 2006 , 63, 1074-1093	1.2	
29	A probabilistic algorithm for efficient and robust data propagation in wireless sensor networks. <i>Ad Hoc Networks</i> , 2006 , 4, 621-635	4.8	31
28	A mobility sensitive approach for efficient routing in ad hoc mobile networks 2006 ,		2
27	Routing protocols for efficient communication in wireless ad-hoc networks 2006 ,		3
26	Priority based adaptive coordination of wireless sensors and actors 2006 ,		3
25	A new energy efficient and fault-tolerant protocol for data propagation in smart dust networks using varying transmission range. <i>Computer Communications</i> , 2006 , 29, 477-489	5.1	20
24	Sink mobility protocols for data collection in wireless sensor networks 2006 ,		92

23	Efficient and Robust Data Dissemination Using Limited Extra Network Knowledge. <i>Lecture Notes in Computer Science</i> , 2006 , 218-233	0.9	7
22	Power-Efficient Data Propagation Protocols for Wireless Sensor Networks. <i>Simulation</i> , 2005 , 81, 399-411	1.2	15
21	Efficient and Robust Protocols for Local Detection and Propagation in Smart Dust Networks. <i>Mobile Networks and Applications</i> , 2005 , 10, 133-149	2.9	34
20	jWebDust : A Java-Based Generic Application Environment for Wireless Sensor Networks. <i>Lecture Notes in Computer Science</i> , 2005 , 376-386	0.9	16
19	An adaptive power conservation scheme for heterogeneous wireless sensor networks with node redeployment 2005 ,		11
18	Distributed Circle Formation for Anonymous Oblivious Robots. <i>Lecture Notes in Computer Science</i> , 2004 , 159-174	0.9	35
17	Design and Analysis of an Efficient Communication Strategy for Hierarchical and Highly Changing Ad-hoc Mobile Networks. <i>Mobile Networks and Applications</i> , 2004 , 9, 319-332	2.9	9
16	On the effect of user mobility and density on the performance of protocols for ad-hoc mobile networks. <i>Wireless Communications and Mobile Computing</i> , 2004 , 4, 609-621	1.9	5
15	Wireless sensor networks protocols for efficient collision avoidance in multi-path data propagation 2004 ,		13
14	A COMPARATIVE STUDY OF PROTOCOLS FOR EFFICIENT DATA PROPAGATION IN SMART DUST NETWORKS. <i>Parallel Processing Letters</i> , 2003 , 13, 615-627	0.3	21
13	Distributed communication algorithms for ad hoc mobile networks. <i>Journal of Parallel and Distributed Computing</i> , 2003 , 63, 58-74	4.4	17
12	An adaptive compulsory protocol for basic communication in highly changing ad-hoc mobile networks 2002 ,		6
11	Smart dust protocols for local detection and propagation 2002 ,		35
10	An efficient communication strategy for ad-hoc mobile networks 2001 ,		23
9	An Experimental Study of Basic Communication Protocols in Ad-hoc Mobile Networks. <i>Lecture Notes in Computer Science</i> , 2001 , 159-171	0.9	12
8	Power conservation schemes for energy efficient data propagation in heterogeneous wireless sensor networks		9
7	Modeling and evaluation of the effect of obstacles on the performance of wireless sensor networks		10
6	A sleep-awake protocol for information propagation in smart dust networks		16

5	On the effect of user mobility and density on the performance of ad-hoc mobile networks	1
4	DAP: a generic platform for the simulation of distributed algorithms	1
3	A new energy efficient and fault-tolerant protocol for data propagation in Smart Dust networks using varying transmission range	13
2		13
1	An efficient routing protocol for hierarchical ad-hoc mobile networks	8