Dimitrios Georgakopoulos

List of Publications by Year
in descending order

106 papers	6,106 citations	304743 22 h-index	149698 56 g-index
107 all docs	107 docs citations	107 times ranked	6192 citing authors

#	Article	IF	Citations
1	Context Aware Computing for The Internet of Things: A Survey. IEEE Communications Surveys and Tutorials, 2014, 16, 414-454.	39.4	1,974
2	Sensing as a service model for smart cities supported by Internet of Things. Transactions on Emerging Telecommunications Technologies, 2014, 25, 81-93.	3.9	725
3	Fog Computing: Survey of Trends, Architectures, Requirements, and Research Directions. IEEE Access, 2018, 6, 47980-48009.	4.2	366
4	Internet of Things Platform for Smart Farming: Experiences and Lessons Learnt. Sensors, 2016, 16, 1884.	3.8	264
5	Internet of Things and Edge Cloud Computing Roadmap for Manufacturing. IEEE Cloud Computing, 2016, 3, 66-73.	3.9	201
6	A service computing manifesto. Communications of the ACM, 2017, 60, 64-72.	4.5	180
7	Sensor Search Techniques for Sensing as a Service Architecture for the Internet of Things. IEEE Sensors Journal, 2014, 14, 406-420.	4.7	165
8	IOTSim: A simulator for analysing IoT applications. Journal of Systems Architecture, 2017, 72, 93-107.	4.3	159
9	Internet of things: from internet scale sensing to smart services. Computing (Vienna/New York), 2016, 98, 1041-1058.	4.8	118
10	Privacy preserving Internet of Things: From privacy techniques to a blueprint architecture and efficient implementation. Future Generation Computer Systems, 2017, 76, 540-549.	7.5	104
11	A security framework in G-Hadoop for big data computing across distributed Cloud data centres. Journal of Computer and System Sciences, 2014, 80, 994-1007.	1.2	96
12	Context-Aware Sensor Search, Selection and Ranking Model for Internet of Things Middleware. , 2013, , .		89
13	MOSDEN: An Internet of Things Middleware for Resource Constrained Mobile Devices. , 2014, , .		89
14	Managing process and service fusion in virtual enterprises. Information Systems, 1999, 24, 429-456.	3.6	84
15	Modeling and Composing Service-Based and Reference Process-Based Multi-enterprise Processes. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2000, , 247-263.	0.3	80
16	The Next Grand Challenges: Integrating the Internet of Things and Data Science. IEEE Cloud Computing, 2018, 5, 12-26.	3.9	74
17	CA4IOT: Context Awareness for Internet of Things. , 2012, , .		72
18	DISTRIBUTED OBJECT MANAGEMENT. International Journal of Cooperative Information Systems, 1992, 01, 5-42.	0.8	70

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19	Privacy Protection for Wireless Medical Sensor Data. IEEE Transactions on Dependable and Secure Computing, 2016, 13, 369-380.	5.4	70
20	QoE in IoT: a vision, survey and future directions. Discover Internet of Things, 2021, 1, 1.	4.8	60
21	Report from the NSF workshop on workflow and process automation in information systems. SIGMOD Record, 1996, 25, 55-67.	1.2	59
22	Public Auditing for Big Data Storage in Cloud Computing -- A Survey. , 2013, , .		57
23	Efficient Opportunistic Sensing using Mobile Collaborative Platform MOSDEN. , 2013, , .		42
24	Deep Osmosis: Holistic Distributed Deep Learning in Osmotic Computing. IEEE Cloud Computing, 2017, 4, 22-32.	3.9	40
25	Do-it-Yourself Digital Agriculture applications with semantically enhanced IoT platform. , 2015, , .		38
26	Sensor discovery and configuration framework for the Internet of Things paradigm. , 2014, , .		36
27	Orchestrating BigData Analysis Workflows. IEEE Cloud Computing, 2017, 4, 20-28.	3.9	34
28	A note on software tools and technologies for delivering smart media-optimized big data applications in the cloud. Computing (Vienna/New York), 2016, 98, 1-5.	4.8	31
29	Cross-Layer Multi-Cloud Real-Time Application QoS Monitoring and Benchmarking As-a-Service Framework. IEEE Transactions on Cloud Computing, 2019, 7, 48-61.	4.4	29
30	Semantic-Driven Configuration of Internet of Things Middleware. , 2013, , .		27
31	Investigating decision support techniques for automating Cloud service selection. , 2012, , .		25
32	SensorDB: a virtual laboratory for the integration, visualization and analysis of varied biological sensor data. Plant Methods, 2015, 11, 53.	4.3	25
33	Capturing sensor data from mobile phones using Global Sensor Network middleware. , 2012, , .		24
34	Scalable Role-Based Data Disclosure Control for the Internet of Things. , 2017, , .		24
35	The Curse of Sensing: Survey of techniques and challenges to cope with sparse and dense data in mobile crowd sensing for Internet of Things. Pervasive and Mobile Computing, 2018, 49, 111-125.	3.3	23
36	AWARENESS PROVISIONING IN COLLABORATION MANAGEMENT. International Journal of Cooperative Information Systems, 2002, 11, 145-173.	0.8	21

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37	Internet of Things: Challenges and State-of-the-Art Solutions in Internet-Scale Sensor Information Management and Mobile Analytics. , 2015, , .		21
38	Analyze EEG signals with extreme learning machine based on PMIS feature selection. International Journal of Machine Learning and Cybernetics, 2018, 9, 243-249.	3.6	21
39	Discovery-Driven Service Oriented IoT Architecture. , 2015, , .		19
40	Recent advances in autonomic provisioning of big data applications on clouds. IEEE Transactions on Cloud Computing, 2015, 3, 101-104.	4.4	19
41	Contextualised service delivery in the Internet of Things: Parking recommender for smart cities. , 2016, , .		19
42	Analyticsâ€asâ€aâ€service in a multiâ€cloud environment through semanticallyâ€enabled hierarchical data processing. Software - Practice and Experience, 2017, 47, 1139-1156.	3.6	19
43	Digital Twins Supporting Efficient Digital Industrial Transformation. Sensors, 2021, 21, 6829.	3.8	19
44	An Industrial IoT Solution for Evaluating Workers' Performance Via Activity Recognition. , 2019, , .		18
45	ConTaaS: An Approach to Internet-Scale Contextualisation for Developing Efficient Internet of Things Applications. , 2017, , .		18
46	MediaWise cloud content orchestrator. Journal of Internet Services and Applications, 2013, 4, .	2.1	16
47	An Iterative Hierarchical Key Exchange Scheme for Secure Scheduling of Big Data Applications in Cloud Computing. , 2013, , .		16
48	Chronological scheduling of transactions with temporal dependencies. VLDB Journal, 1994, 3, 1-28.	4.1	15
49	Internet of Things-based Hydrocarbon Sensing for Real-time Environmental Monitoring. , 2019, , .		15
50	Classification and Annotation of Open Internet of Things Datastreams. Lecture Notes in Computer Science, 2018, , 209-224.	1.3	14
51	Addressing Information Processing Needs of Digital Agriculture with OpenIoT Platform. Lecture Notes in Computer Science, 2015, , 137-152.	1.3	14
52	Advances in Methods and Techniques for Processing Streaming Big Data in Datacentre Clouds. IEEE Transactions on Emerging Topics in Computing, 2016, 4, 262-265.	4.6	13
53	A multi-layered performance analysis for cloud-based topic detection and tracking in Big Data applications. Future Generation Computer Systems, 2018, 87, 580-590.	7.5	13
54	Connecting mobile things to global sensor network middleware using system-generated wrappers. , 2012, , .		12

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55	Advancements towards Global IoT Device Discovery and Integration. , 2019, , .		12
56	Teamware: An Evaluation of Key Technologies and Open Problems. Distributed and Parallel Databases, 2004, 15, 9-44.	1.6	11
57	MOSDEN: A Scalable Mobile Collaborative Platform for Opportunistic Sensing Applications. EAI Endorsed Transactions on Collaborative Computing, 2014, 1, e6.	0.2	11
58	Social Media Data Aggregation and Mining for Internet-Scale Customer Relationship Management. , 2015, , .		10
59	IoT Device Integration and Payment via an Autonomic Blockchain-Based Service for IoT Device Sharing. Sensors, 2022, 22, 1344.	3.8	10
60	Context-Aware Dynamic Discovery and Configuration of â€˜Thingsâ€™ in Smart Environments. Studies in Computational Intelligence, 2014, , 215-241.	0.9	9
61	Holistic Technologies for Managing Internet of Things Services. IEEE Transactions on Services Computing, 2020, 13, 597-601.	4.6	9
62	BigDataSDNSim: A simulator for analyzing big data applications in softwareâ€‐defined cloud data centers. Software - Practice and Experience, 2021, 51, 893-920.	3.6	9
63	A Field Study of Internet of Things-Based Solutions for Automatic Passenger Counting. IEEE Open Journal of Intelligent Transportation Systems, 2021, 2, 384-401.	4.8	9
64	An IoT-owned Service for Global IoT Device Discovery, Integration and (Re)use. , 2020, , .		9
65	Evaluating Sensor Data Quality in Internet of Things Smart Agriculture Applications. IEEE Micro, 2022, 42, 51-60.	1.8	9
66	Cyber twins supporting industry 4.0 application development. , 2020, , .		8
67	Specification and Management of Interdependent Data in Operational Systems and Data Warehouses. Distributed and Parallel Databases, 1997, 5, 121-166.	1.6	7
68	Internet of Things Milk Spectrum Profiling for Industry 4.0 Dairy and Milk Manufacturing. , 2020, , .		7
69	Managing Time-Sensitive IoT Applications via Dynamic Application Task Distribution and Adaptation. Remote Sensing, 2021, 13, 4148.	4.0	7
70	Event-driven Video Awareness Providing Physical Security. World Wide Web, 2007, 10, 85-109.	4.0	6
71	Towards understanding the runtime configuration management of do-it-yourself content delivery network applications over public clouds. Future Generation Computer Systems, 2014, 37, 297-308.	7.5	6
72	Process-Based E-Service Composition for Modeling and Automating Zero Latency Supply Chains. Information Systems Frontiers, 2002, 4, 33-54.	6.4	5

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73	From Events to Awareness. , 2006, , .		5
74	A note on resource management techniques and systems for big data workflow processing. Computing (Vienna/New York), 2018, 100, 1-2.	4.8	5
75	Analysing Emerging Topics across Multiple Social Media Platforms. , 2019, , .		5
76	A Global IoT Device Discovery and Integration Vision. , 2019, , .		5
77	Context-Driven Granular Disclosure Control for Internet of Things Applications. IEEE Transactions on Big Data, 2019, 5, 408-422.	6.1	5
78	Improving Government Services Using Social Media Feedback. , 2015, , 221-246.		5
79	A Survey of Techniques for Fulfilling the Time-Bound Requirements of Time-Sensitive IoT Applications. ACM Computing Surveys, 2022, 54, 1-36.	23.0	5
80	Age of Data Aware Internet of Things Applications. , 2022, , .		4
81	Orchestrating Quality of Service in the Cloud of Things Ecosystem. , 2015, , .		3
82	VisCrimePredict. , 2019, , .		3
83	A solution for annotating sensor data streams - An industrial use case in building management system. , 2020, , .		3
84	SenShaMart: A Trusted IoT Marketplace for Sensor Sharing. , 2020, , .		3
85	APOLLO. , 2020, , .		3
86	A Framework for Enabling Cyber-Twins based Industry 4.0 Application Development. , 2021, , .		3
87	IoT-based Plant Health Analysis using Optical Sensors in Precision Agriculture. , 2021, , .		3
88	Advances in Orchestrating Sustainable Smart Cities (Part 1). IEEE Transactions on Sustainable Computing, 2017, 2, 317-319.	3.1	2
89	VisCrime. , 2019, , .		2
90	Editorial for the special issue on big time series data. Computing (Vienna/New York), 2020, 102, 741-743.	4.8	2

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91	Do-It-Yourself Content Delivery Network Orchestrator. Lecture Notes in Computer Science, 2012, , 789-791.	1.3	2
92	INFORM: A Tool for Classification and Semantic Annotation of IoT Datastreams. , 2021, , .		2
93	Awareness-based Collaboration Driving Process-based Coordination. , 2006, , .		1
94	Advances in Orchestrating Sustainable Smart Cities (Part 2). IEEE Transactions on Sustainable Computing, 2018, 3, 1-3.	3.1	1
95	Visual Analytics Ontology-Guided I-DE System: A Case Study of Head and Neck Cancer in Australia. , 2018, , .		1
96	Computational and Human Evaluations of Orthogonal Graph Drawings. , 2019, , .		1
97	IoTSec: A Lightweight and Holistic IoT Security Based on IoT Data Contextualisation and Homomorphic Encryption. Lecture Notes in Computer Science, 2021, , 203-217.	1.3	1
98	Design and Implementation of a Platform for Managing Time-Sensitive IoT Applications. , 2020, , .		1
99	The Video Event Awareness System. , 2007, , .		0
100	WISE 2007 Extended Best Papers. World Wide Web, 2009, 12, 1-2.	4.0	0
101	Guest editorial: mobile services on the Web. World Wide Web, 2011, 14, 293-294.	4.0	0
102	Editorial for CollaborateCom 2011 Special Issue. Mobile Networks and Applications, 2013, 18, 235-236.	3.3	0
103	Special issue on Big Data and Cloud of Things (CoT). Software - Practice and Experience, 2017, 47, 345-347.	3.6	0
104	Towards a RISC Framework for Efficient Contextualisation in the IoT. , 2017, , .		0
105	Information Services: Myth or Silver Bullet?. Lecture Notes in Computer Science, 2009, , 793-794.	1.3	0
106	Modelling IoT Application Requirements for Benchmarking IoT Middleware Platforms. , 2021, , .		0