

# Dimosthenis Kyriazis

## List of Publications by Year in descending order

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Version: 2024-02-01

155  
papers

1,617  
citations

430874

18  
h-index

501196

28  
g-index

161  
all docs

161  
docs citations

161  
times ranked

1376  
citing authors

#	ARTICLE	IF	CITATIONS
1	Platform-as-a-Service Architecture for Real-Time Quality of Service Management in Clouds. , 2010, , .		94
2	Sustainable smart city IoT applications: Heat and electricity management & Eco-conscious cruise control for public transportation. , 2013, , .		83
3	A Self-adaptive hierarchical monitoring mechanism for Clouds. Journal of Systems and Software, 2012, 85, 1029-1041.	4.5	76
4	Smart, Autonomous and Reliable Internet of Things. Procedia Computer Science, 2013, 21, 442-448.	2.0	58
5	IoT in Healthcare: Achieving Interoperability of High-Quality Data Acquired by IoT Medical Devices. Sensors, 2019, 19, 1978.	3.8	57
6	An innovative workflow mapping mechanism for Grids in the frame of Quality of Service. Future Generation Computer Systems, 2008, 24, 498-511.	7.5	51
7	Dynamic, behavioral-based estimation of resource provisioning based on high-level application terms in Cloud platforms. Future Generation Computer Systems, 2014, 32, 27-40.	7.5	49
8	Dynamic QoS-aware data replication in grid environments based on data "importance". Future Generation Computer Systems, 2012, 28, 544-553.	7.5	43
9	Comparison of Management and Orchestration Solutions for the 5G Era. Journal of Sensor and Actuator Networks, 2020, 9, 4.	3.9	39
10	Internet of Medical Things (IoMT): Acquiring and Transforming Data into HL7 FHIR through 5G Network Slicing. Emerging Science Journal, 2019, 3, 64.	3.7	36
11	A Cloud Environment for Data-intensive Storage Services. , 2011, , .		34
12	Challenges Emerging from Future Cloud Application Scenarios. Procedia Computer Science, 2015, 68, 227-237.	2.0	34
13	Aggregating the syntactic and semantic similarity of healthcare data towards their transformation to HL7 FHIR through ontology matching. International Journal of Medical Informatics, 2019, 132, 104002.	3.3	31
14	Structurally Mapping Healthcare Data to HL7 FHIR through Ontology Alignment. Journal of Medical Systems, 2019, 43, 62.	3.6	31
15	4CaaS marketplace: An advanced business environment for trading cloud services. Future Generation Computer Systems, 2014, 41, 104-120.	7.5	28
16	A recommender mechanism for service selection in service-oriented environments. Future Generation Computer Systems, 2012, 28, 1285-1294.	7.5	27
17	Workflow management for soft real-time interactive applications in virtualized environments. Future Generation Computer Systems, 2012, 28, 193-209.	7.5	27
18	An Innovative eHealth System Powered By 5G Network Slicing. , 2019, , .		27

#	ARTICLE	IF	CITATIONS
19	Migrating Legacy Software to the Cloud with ARTIST. , 2013, , .		26
20	Introducing Automated Verification and Validation for Virtualized Network Functions and Services. IEEE Communications Magazine, 2019, 57, 96-102.	6.1	26
21	An integrated information lifecycle management framework for exploiting social network data to identify dynamic large crowd concentration events in smart cities applications. Future Generation Computer Systems, 2018, 78, 516-530.	7.5	25
22	Analyzing data and data sources towards a unified approach for ensuring end-to-end data and data sources quality in healthcare 4.0. Computer Methods and Programs in Biomedicine, 2019, 181, 104967.	4.7	23
23	5Gtango: A Beyond-Mano Service Platform. , 2018, , .		22
24	An architecture supporting knowledge flow in Social Internet of Things systems. , 2014, , .		21
25	5GTANGO: An Approach for Testing NFV Deployments. , 2018, , .		19
26	A Real-time Service Oriented Infrastructure. , 2010, , .		19
27	Real-time reconfiguration for guaranteeing QoS provisioning levels in Grid environments. Future Generation Computer Systems, 2009, 25, 779-784.	7.5	18
28	Verification and validation framework for 5G network services and apps. , 2017, , .		18
29	Social monitoring and social analysis in internet of things virtual networks. , 2015, , .		17
30	Dynamic 5G Slices for IoT Applications with Diverse Requirements. , 2018, , .		17
31	Virtualised e-Learning on the IRMOS real-time Cloud. Service Oriented Computing and Applications, 2012, 6, 151-166.	1.6	16
32	Capturing the Reliability of Unknown Devices in the IoT World. , 2018, , .		16
33	The CrowdHEALTH project and the Hollistic Health Records: Collective Wisdom Driving Public Health Policies. Acta Informatica Medica, 2019, 27, 369.	1.1	16
34	A Service-Oriented Framework for GNU Octave-Based Performance Prediction. , 2010, , .		15
35	Virtualised e-Learning with real-time guarantees on the IRMOS platform. , 2010, , .		15
36	Hierarchical Fuzzy Clustering in Conjunction with Particle Swarm Optimization to Efficiently Design RBF Neural Networks. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 78, 105-125.	3.4	14

#	ARTICLE	IF	CITATIONS
37	5G & SLAs: Automated proposition and management of agreements towards QoS enforcement. , 2018, , .		14
38	Translation of application-level terms to resource-level attributes across the Cloud stack layers. , 2011, , .		13
39	Parametric Design and Performance Analysis of a Decoupled Service-Oriented Prediction Framework Based on Embedded Numerical Software. IEEE Transactions on Services Computing, 2013, 6, 511-524.	4.6	13
40	FHIR Ontology Mapper (FOM): Aggregating Structural and Semantic Similarities of Ontologies towards their Alignment to HL7 FHIR. , 2018, , .		13
41	Service Selection Decision Support in the Internet of Services. Lecture Notes in Computer Science, 2010, , 16-33.	1.3	13
42	A plug & play approach for dynamic data acquisition from heterogeneous IoT medical devices of unknown nature. Evolving Systems, 2020, 11, 269-289.	3.9	12
43	A service oriented monitoring framework for soft real-time applications. , 2010, , .		11
44	A Comparative Study of Classification Techniques for Managing IoT Devices of Common Specifications. Lecture Notes in Computer Science, 2017, , 67-77.	1.3	11
45	SLAs in 5G: A Complete Framework Facilitating VNF- and NS- Tailored SLAs Management. , 2018, , .		11
46	beHEALTHIER: A Microservices Platform for Analyzing and Exploiting Healthcare Data. , 2021, , .		10
47	A Real-time Service Oriented Infrastructure. , 2010, , .		10
48	A novel mechanism for provisioning of high-level quality of service information in grid environments. European Journal of Operational Research, 2008, 191, 1113-1131.	5.7	9
49	Aggregating Heterogeneous Health Data through an Ontological Common Health Language. , 2017, , .		9
50	An Integrated SLA Management Framework in a 5G Environment. , 2019, , .		9
51	A Real-time Service Oriented Infrastructure. GSTF International Journal on Computing, 2011, 1, .	0.2	9
52	AutoClust: A Framework for Automated Clustering Based on Cluster Validity Indices. , 2020, , .		9
53	Service selection and workflow mapping for Grids: an approach exploiting quality of service information. Concurrency Computation Practice and Experience, 2009, 21, 739-766.	2.2	8
54	Fault tolerant and prioritized scheduling in OGSA-based mobile Grids. Concurrency Computation Practice and Experience, 2009, 21, 533-556.	2.2	8

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55	Towards Data Interoperability: Turning Domain Specific Knowledge to Agnostic across the Data Lifecycle. , 2016, , .		8
56	Disaster Recovery Layer for Distributed OpenStack Deployments. IEEE Transactions on Cloud Computing, 2020, 8, 112-123.	4.4	8
57	STARdom: An Architecture for Trusted and Secure Human-Centered Manufacturing Systems. IFIP Advances in Information and Communication Technology, 2021, , 199-207.	0.7	8
58	Data Sources and Gateways: Design and Open Specification. Acta Informatica Medica, 2019, 27, 341.	1.1	8
59	e-Business applications on the Grid: a toolkit for centralized workload prediction and access. Concurrency Computation Practice and Experience, 2007, 19, 867-883.	2.2	7
60	A Unified Management Model for Data Intensive Storage Clouds. , 2011, , .		7
61	Real-time event management in cloud environments. International Journal of High Performance Computing and Networking, 2015, 8, 212.	0.4	7
62	A KPI-Enabled NFV MANO Architecture for Network Slicing with QoS. IEEE Communications Magazine, 2021, 59, 44-50.	6.1	7
63	Legacy applications on the cloud: Challenges and enablers focusing on application performance analysis and providers characteristics. , 2012, , .		6
64	A look to the old-world_sky. Operating Systems Review (ACM), 2012, 46, 43-56.	1.9	6
65	A Web Based Modular Environment for Assisting Health Policy Making Utilizing Big Data Analytics. , 2018, , .		6
66	The Road to the Future of Healthcare: Transmitting Interoperable Healthcare Data Through a 5G Based Communication Platform. Lecture Notes in Business Information Processing, 2019, , 383-401.	1.0	6
67	Real-Time Guarantees in Flexible Advance Reservations. , 2009, , .		5
68	Interactive Social TV on Service Oriented Environments: Challenges and Enablers. , 2011, , .		5
69	An IoT enabled point system for end-to-end multi-modal transportation optimization. , 2013, , .		5
70	Plug&玩儿™play IoT Devices: An Approach for Dynamic Data Acquisition from Unknown Heterogeneous Devices. Advances in Intelligent Systems and Computing, 2018, , 885-895.	0.6	5
71	BigDataStack: A Holistic Data-Driven Stack for Big Data Applications and Operations. , 2018, , .		5
72	An Optimized KDD Process for Collecting and Processing Ingested and Streaming Healthcare Data. , 2021, , .		5

#	ARTICLE	IF	CITATIONS
73	Managing and Optimizing Quality of Service in 5G Environments Across the Complete SLA Lifecycle. <i>Advances in Science, Technology and Engineering Systems</i> , 2019, 4, 329-342.	0.5	5
74	Interoperability Techniques in CrowdHEALTH project: The Terminology Service. <i>Acta Informatica Medica</i> , 2019, 27, 355.	1.1	5
75	What Can OpenStack Adopt from a Ganeti-Based Open-Source IaaS?. , 2014, , .		4
76	Gaining the Semantic Knowledge of Healthcare Data through Syntactic Models Transformations. , 2017, , .		4
77	Towards Autonomic Policy-based Network Service Deployment with SLA and Monitoring. , 2018, , .		4
78	BYOS: Bring Your Own Security in Clouds and Service Oriented Infrastructures. , 2018, , .		4
79	Orchestrating Live Immersive Media Services Over Cloud Native Edge Infrastructure. , 2019, , .		4
80	A Comparative Study of Bluetooth SPP, PAN and GOEP for Efficient Exchange of Healthcare Data. <i>Emerging Science Journal</i> , 2021, 5, 279-293.	3.7	4
81	A String Similarity Evaluation for Healthcare Ontologies Alignment to HL7 FHIR Resources. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 956-970.	0.6	4
82	Delivering Reliability of Data Sources in IoT Healthcare Ecosystems. , 2019, , .		4
83	CrowdHEALTH: Big Data Analytics and Holistic Health Records. <i>Studies in Health Technology and Informatics</i> , 2019, 258, 255-256.	0.3	4
84	HealthFetch: An Influence-Based, Context-Aware Prefetch Scheme in Citizen-Centered Health Storage Clouds. <i>Future Internet</i> , 2022, 14, 112.	3.8	4
85	Realtime-enabled workflow management in service oriented infrastructures. , 2008, , .		3
86	Service oriented license providing. , 2009, , .		3
87	A Study on the Effect of Application and Resource Characteristics on the QoS in Service Provisioning Environments. <i>International Journal of Distributed Systems and Technologies</i> , 2010, 1, 55-75.	0.7	3
88	Virtual and Augmented Reality: Improved User Experience through a Service Oriented Infrastructure. , 2011, , .		3
89	Exploiting grid technologies for the simulation of clinical trials: the paradigm of in silico radiation oncology. <i>Simulation</i> , 2011, 87, 893-910.	1.8	3
90	A Monitoring Mechanism for Storage Clouds. , 2012, , .		3

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91	High performance fault-tolerance for clouds. , 2015, , .		3
92	A Comparative Study in Data Mining: Clustering and Classification Capabilities. Lecture Notes in Business Information Processing, 2017, , 82-96.	1.0	3
93	Advanced NFV Features Applied to Multimedia Real-Time Communications Use Case. , 2019, , .		3
94	Modelling and prediction of resources and services state evolvement for efficient runtime adaptations. Future Generation Computer Systems, 2019, 94, 1-10.	7.5	3
95	SemAI: A Novel Approach for Achieving Enhanced Semantic Interoperability in Public Policies. IFIP Advances in Information and Communication Technology, 2021, , 687-699.	0.7	3
96	Innovative Methodology for Personalized 3D Representation and Big Data Management in Cultural Heritage. Communications in Computer and Information Science, 2019, , 69-77.	0.5	3
97	Retrieving, Storing, Correlating and Distributing Information for Cloud Management. Lecture Notes in Computer Science, 2012, , 114-124.	1.3	3
98	A Comparison of Two Different Approaches to Cloud Monitoring. Studies in Computational Intelligence, 2014, , 69-91.	0.9	3
99	Identification of IoT Medical Devices APIs Through Ontology Mapping Techniques. EAI/Springer Innovations in Communication and Computing, 2020, , 39-54.	1.1	3
100	Taxonomy and State of the Art of Service Discovery Mechanisms and Their Relation to the Cloud Computing Stack. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 0, , 75-93.	0.5	3
101	Multilingual Sentiment Analysis on Twitter Data Towards Enhanced Policy Making. IFIP Advances in Information and Communication Technology, 2022, , 325-337.	0.7	3
102	Evaluating Quality Provisioning Levels in Service Oriented Business Environments. , 2008, , .		2
103	Data Aggregation and Analysis: A Grid-Based Approach for Medicine and Biology. , 2008, , .		2
104	A Service Oriented Architecture for achieving QoS-aware Workflow Management in Virtualized Environments. , 2010, , .		2
105	Trustworthy data processing for health analytics tasks. , 2018, , .		2
106	OPTIMIS and VISION Cloud: How to Manage Data in Clouds. Lecture Notes in Computer Science, 2012, , 35-44.	1.3	2
107	Towards a Secure Semantic Knowledge of Healthcare Data Through Structural Ontological Transformations. Smart Innovation, Systems and Technologies, 2019, , 178-188.	0.6	2
108	Clinical trial simulation in Grid environments. , 2008, , .		1

#	ARTICLE	IF	CITATIONS
109	QoS-Based Decision Services in Grids. , 2008, , .		1
110	Special section: Real-time attributes in grids. Future Generation Computer Systems, 2009, 25, 756-757.	7.5	1
111	An Architectural Approach for Event-Based Execution Management in Service Oriented Infrastructures. , 2010, , .		1
112	Modeling the interactions between cloud service providers. , 2012, , .		1
113	QoS-oriented Service Management in large scale federated clouds. , 2013, , .		1
114	Opportunistic Collaborative Service Networks: The Facilitator for Efficient Data and Services Exchange. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 307-314.	0.3	1
115	Comparison of Database and Workload Types Performance in Cloud Environments. Lecture Notes in Computer Science, 2016, , 138-150.	1.3	1
116	Acquiring the Ontological Representation of Healthcare Data Through Metamodeling Techniques. Lecture Notes in Business Information Processing, 2017, , 324-336.	1.0	1
117	Exploring the complete data path for data interoperability in cyber-physical systems. International Journal of High Performance Computing and Networking, 2018, 12, 339.	0.4	1
118	Protection of Service-Oriented Environments Serving Critical Infrastructures. Inventions, 2018, 3, 62.	2.5	1
119	Cheapo: An algorithm for runtime adaption of time intervals applied in 5G networks. , 2018, , .		1
120	Identification of Bluetooth-Enabled IoT Devices Through Syntactic Similarity Techniques. , 2019, , .		1
121	Resilient Eco-Smart Strategies and Innovative Technologies to Protect Cultural Heritage. Communications in Computer and Information Science, 2019, , 376-384.	0.5	1
122	Indexing of Cloud Stored Electronic Health Records for Consented Third Party Accessing. , 2021, , .		1
123	Scenarios of Next Generation Grid Applications in Collaborative Environments. , 2012, , 1764-1784.		1
124	Prioritization of IoT Devices Healthcare Data based on Attribute Scoring and Metadata Annotation. , 2021, , .		1
125	An Open Architecture for QoS Information in Business Grids. , 2007, , 37-49.		1
126	Business Relationships in Grid Workflows. Lecture Notes in Computer Science, 2008, , 28-40.	1.3	1



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127	Minimizing Technical Complexities in Emerging Cloud Computing Platforms. Lecture Notes in Computer Science, 2011, , 603-610.	1.3	1
128	Commercial and Distributed Storage Systems. , 2013, , 1-8.		1
129	Cloud Services for Healthcare. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2015, , 292-317.	0.5	1
130	Cloud Services for Healthcare. , 2016, , 709-734.		1
131	Collaborative Filtering for Producing Recommendations in the Retail Sector. Lecture Notes in Business Information Processing, 2017, , 662-669.	1.0	1
132	CrowdHEALTH: An e-Health Big Data Driven Platform towards Public Health Policies. , 2020, , .		1
133	Modelling and Evaluation of Policies. Acta Informatica Medica, 2020, 28, 58.	1.1	1
134	Grid Workflows with Encompassed Business Relationship. , 0, , 128-145.		1
135	A Health Information Exchange Protocol Supporting Bluetooth-based Messages. , 2021, , .		1
136	Health Record Index: Secure Access of Cloud-Stored Healthcare Data. Studies in Health Technology and Informatics, 2020, 272, 221-224.	0.3	1
137	QoS-oriented Service Management in clouds for large scale industrial activity recognition. , 2011, , .		0
138	Real-time computer vision in clouds through effective monitoring and workflow management. , 2013, , .		0
139	Efficient Scalability through Layered Monitoring and Event Processing. , 2014, , .		0
140	A Generic Approach for Capturing Reliability in Medical Cyber-Physical Systems. IFIP Advances in Information and Communication Technology, 2018, , 250-262.	0.7	0
141	Towards Optimized Verification and Validation of 5G Services. , 2019, , .		0
142	CrowdHEALTH - Collective Wisdom Driving Public Health Policies. , 2019, , .		0
143	Analyzing Collective Knowledge Towards Public Health Policy Making. IFIP Advances in Information and Communication Technology, 2021, , 171-181.	0.7	0
144	Scenarios of Next Generation Grid Applications in Collaborative EnvironmentsA Business-Technical Analysis. , 2009, , 40-60.		0

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145	A Neural Network Approach Implementing Non-Linear Relevance Feedback to Improve the Performance of Medical Information Retrieval Systems. , 2009, , 255-272.		0
146	A QoS-Based Selection Mechanism Exploiting Business Relationships in Workflows. Lecture Notes in Computer Science, 2009, , 102-115.	1.3	0
147	Monitoring in Federated and Self-Manageable Clouds. , 2012, , 117-133.		0
148	Grid Workflows with Encompassed Business Relationships. , 2012, , 1332-1348.		0
149	Workflow Management Systems in Distributed Environments. , 2013, , 142-159.		0
150	Experimenting with Application-Based Benchmarks on Different Cloud Providers via a Multi-cloud Execution and Modeling Framework. Communications in Computer and Information Science, 2015, , 213-227.	0.5	0
151	Employing Relevance Feedback to Embed Content and Service Importance into the Selection Process of Composite Cloud Services. Lecture Notes in Computer Science, 2016, , 98-114.	1.3	0
152	Introducing Licensing Throughout SLAs in NFV Environment. Lecture Notes in Computer Science, 2019, , 169-177.	1.3	0
153	Test Recommendation for Service Validation in 5G Networks. Lecture Notes in Business Information Processing, 2020, , 139-150.	1.0	0
154	Workflow Management Systems in Distributed Environments. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 0, , 115-132.	0.5	0
155	Real-time adaptable resource allocation for distributed data-intensive applications over cloud and edge environments. , 2020, , .		0