

Roch H Glitho

List of Publications by Year in descending order

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172
papers

2,636
citations

566801

15
h-index

264894

42
g-index

177
all docs

177
docs citations

177
times ranked

2756
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comprehensive Survey on Fog Computing: State-of-the-Art and Research Challenges. IEEE Communications Surveys and Tutorials, 2018, 20, 416-464.	24.8	731
2	Wireless sensor network virtualization: A survey. IEEE Communications Surveys and Tutorials, 2016, 18, 553-576.	24.8	254
3	RESTful web services for service provisioning in next-generation networks: a survey. , 2011, 49, 66-73.		72
4	A Survey on Replica Server Placement Algorithms for Content Delivery Networks. IEEE Communications Surveys and Tutorials, 2017, 19, 1002-1026.	24.8	71
5	CPVNF: Cost-Efficient Proactive VNF Placement and Chaining for Value-Added Services in Content Delivery Networks. IEEE Transactions on Network and Service Management, 2018, 15, 774-786.	3.2	67
6	A Comprehensive Survey of the Tactile Internet: State-of-the-Art and Research Directions. IEEE Communications Surveys and Tutorials, 2021, 23, 472-523.	24.8	66
7	A platform as-a-service for hybrid cloud/fog environments. , 2016, , .		64
8	Application Component Placement in NFV-Based Hybrid Cloud/Fog Systems With Mobile Fog Nodes. IEEE Journal on Selected Areas in Communications, 2019, 37, 1130-1143.	9.7	62
9	Wireless sensor network virtualization: early architecture and research perspectives. IEEE Network, 2015, 29, 104-112.	4.9	60
10	Service composition for IP smart object using realtime Web protocols: Concept and research challenges. Computer Standards and Interfaces, 2016, 43, 79-90.	3.8	41
11	NFV and SDN-Based Distributed IoT Gateway for Large-Scale Disaster Management. IEEE Internet of Things Journal, 2018, 5, 4119-4131.	5.5	39
12	On the Placement of VNF Managers in Large-Scale and Distributed NFV Systems. IEEE Transactions on Network and Service Management, 2017, 14, 875-889.	3.2	37
13	SOAP-Based vs. RESTful Web Services: A Case Study for Multimedia Conferencing. IEEE Internet Computing, 2012, 16, 54-63.	3.2	35
14	CCVP: Cost-efficient centrality-based VNF placement and chaining algorithm for network service provisioning. , 2017, , .		32
15	A novel architecture for Web service composition. Journal of Network and Computer Applications, 2012, 35, 787-802.	5.8	29
16	A coalition formation algorithm for Multi-Robot Task Allocation in large-scale natural disasters. , 2017, , .		28
17	A Demo of IoT Healthcare Application Provisioning in Hybrid Cloud/Fog Environment. , 2016, , .		27
18	A data annotation architecture for semantic applications in virtualized wireless sensor networks. , 2015, , .		25

#	ARTICLE	IF	CITATIONS
19	Efficient tracesâ€™ collection mechanisms for passive testing of Web Services. Information and Software Technology, 2009, 51, 362-374.	3.0	20
20	Widgets and composition mechanism for service creation by ordinary users. , 2012, 50, 52-60.		20
21	Cloudifying the 3GPP IP multimedia subsystem for 4G and beyond: A survey. , 2016, 54, 91-97.		20
22	Application Component Placement in NFV-based Hybrid Cloud/Fog Systems. , 2018, , .		20
23	A Presence-Based Architecture for the Integration of the Sensing Capabilities of Wireless Sensor Networks in the IP Multimedia Subsystem. , 2008, , .		19
24	RESTful web services for bridging presence service across technologies and domains: an early feasibility prototype. , 2010, 48, 92-100.		19
25	CACEV: A Cost and Carbon Emission-Efficient Virtual Machine Placement Method for Green Distributed Clouds. , 2016, , .		19
26	An IoT Platform-as-a-Service for NFV-Based Hybrid Cloud/Fog Systems. IEEE Internet of Things Journal, 2020, 7, 6102-6115.	5.5	19
27	Online VNF Placement and Chaining for Value-added Services in Content Delivery Networks. , 2018, , .		18
28	Ensuring Reliability and Low Cost When Using a Parallel VNF Processing Approach to Embed Delay-Constrained Slices. IEEE Transactions on Network and Service Management, 2020, 17, 2226-2241.	3.2	17
29	Efficient Replica Migration Scheme for Distributed Cloud Storage Systems. IEEE Transactions on Cloud Computing, 2021, 9, 155-167.	3.1	16
30	DECA: A Dynamic Energy Cost and Carbon Emission-Efficient Application Placement Method for Edge Clouds. IEEE Access, 2021, 9, 70192-70213.	2.6	16
31	Mobile Network Supported Wireless Sensor Network Services. , 2007, , .		14
32	An SDN-Based Framework for Routing Multi-Streams Transport Traffic Over Multipath Networks. , 2019, , .		14
33	Market Driven Multidomain Network Service Orchestration in 5G Networks. IEEE Journal on Selected Areas in Communications, 2020, 38, 1417-1431.	9.7	14
34	A mobile agent-based advanced service architecture for wireless internet telephony: design, implementation, and evaluation. IEEE Transactions on Computers, 2003, 52, 690-704.	2.4	13
35	A business model for dynamic composition of telecommunication web services. , 2007, 45, 36-43.		13
36	An Architecture for the Provision of Context-Aware Emergency Services in the IP Multimedia Subsystem. IEEE Vehicular Technology Conference, 2008, , .	0.2	13

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37	The design and implementation of architectural components for the integration of the IP multimedia subsystem and wireless sensor networks. , 2010, 48, 42-50.		13
38	Social Network Analysis Inspired Content Placement with QoS in Cloud Based Content Delivery Networks. , 2015, , .		13
39	A Hybrid Regression Model for Video Popularity-Based Cache Replacement in Content Delivery Networks. , 2016, , .		13
40	Contextware Research Challenges in Ambient Networks. Lecture Notes in Computer Science, 2004, , 62-77.	1.0	13
41	Signaling for Multimedia Conferencing in Stand-Alone Mobile Ad Hoc Networks. IEEE Transactions on Mobile Computing, 2009, 8, 991-1005.	3.9	12
42	Design and implementation of advanced multimedia conferencing applications in the 3GPP IP multimedia subsystem. , 2009, 47, 156-163.		12
43	NFV based gateways for virtualized wireless sensor networks: A case study. , 2015, , .		12
44	An Architecture for QoS-Enabled Mobile Video Surveillance Applications in a 4G EPC and M2M Environment. IEEE Access, 2016, 4, 4082-4093.	2.6	12
45	A Framework for Predicting Haptic Feedback in Needle Insertion in 5G Remote Robotic Surgery. , 2020, , .		12
46	Joint VNF Placement and Scheduling for Latency-Sensitive Services. IEEE Transactions on Network Science and Engineering, 2022, 9, 2432-2449.	4.1	12
47	Mobile Agent-Based Network and Service Management. Journal of Network and Systems Management, 1999, 7, 267-270.	3.3	11
48	An infrastructure for robotic applications as cloud computing services. , 2014, , .		11
49	Approaches to end-user applications portability in the cloud: A survey. , 2016, 54, 138-145.		11
50	Deep Reinforcement Learning-Based Content Migration for Edge Content Delivery Networks With Vehicular Nodes. IEEE Transactions on Network and Service Management, 2021, 18, 3415-3431.	3.2	11
51	Ambient network composition. IEEE Network, 2008, 22, 6-12.	4.9	10
52	Application architectures for machine to machine communications: Research agenda vs. state-of-the-art. , 2011, , .		10
53	Resource Allocation Mechanism for Media Handling Services in Cloud Multimedia Conferencing. IEEE Journal on Selected Areas in Communications, 2019, 37, 1167-1181.	9.7	10
54	Towards the Testing of Composed Web Services in 3rd Generation Networks. Lecture Notes in Computer Science, 2006, , 118-133.	1.0	10

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55	The Design and Implementation of a Web Service Framework for Individual Nodes in Sinkless Wireless Sensor Networks. Proceedings - International Symposium on Computers and Communications, 2007, , .	0.0	9
56	Getting Virtualized Wireless Sensor Networks' IaaS Ready for PaaS. , 2015, , .		9
57	A Cloud Platform-as-a-Service for multimedia conferencing service provisioning. , 2016, , .		9
58	NFV and SDN-based cost-efficient and agile value-added video services provisioning in content delivery networks. , 2017, , .		9
59	A Machine Learning Framework for Handling Delayed/Lost Packets in Tactile Internet Remote Robotic Surgery. IEEE Transactions on Network and Service Management, 2021, 18, 4829-4845.	3.2	9
60	Developing applications for internet telephony: A case study on the use of web services for conferencing in SIP networks. International Journal of Web Information Systems, 2005, 1, 147-160.	1.3	8
61	An Improved Itinerary Recording Protocol for Securing Distributed Architectures Based on Mobile Agents. Mobile Information Systems, 2005, 1, 129-147.	0.4	8
62	Context-Aware Signaling for Call Differentiation in IMS-Based 3G Networks. Proceedings - International Symposium on Computers and Communications, 2007, , .	0.0	8
63	Cloudifying the 3GPP IP Multimedia Subsystem: Why and How?. , 2014, , .		8
64	On optimizing replica migration in distributed cloud storage systems. , 2015, , .		8
65	A genetic algorithm-based solution for efficient in-network sensor data annotation in virtualized Wireless Sensor Networks. , 2016, , .		8
66	Greedy heuristic for replica server placement in Cloud based Content Delivery Networks. , 2016, , .		8
67	Network functions virtualization architecture for gateways for virtualized wireless sensor and actuator networks. IEEE Network, 2016, 30, 72-80.	4.9	8
68	A Fog-Based Architecture for Remote Phobia Treatment. , 2019, , .		8
69	Ensuring Energy Efficiency When Dynamically Assigning Tasks in Virtualized Wireless Sensor Networks. IEEE Transactions on Green Communications and Networking, 2022, 6, 613-628.	3.5	8
70	Auto-adaptive Fault Prediction System for Edge Cloud Environments in the Presence of Concept Drift. , 2021, , .		8
71	A demo of a PaaS for IoT applications provisioning in hybrid cloud/fog environment. , 2016, , .		7
72	A Cloud-Based Architecture for Multimedia Conferencing Service Provisioning. IEEE Access, 2018, 6, 9792-9806.	2.6	7

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73	Emerging alternatives to today's advanced service architectures for Internet telephony: IN and beyond. <i>Computer Networks</i> , 2001, 35, 551-563.	3.2	6
74	Enhancing the QoS and Resource Management Aspects of the 3GPP IMS Emergency Service Architecture. , 2008, , .		6
75	The Design and Implementation of a Gateway for IP Multimedia Subsystem/Wireless Sensor Networks Interworking. , 2009, , .		6
76	Cloud-based Multimedia Conferencing: Business Model, Research Agenda, State-of-the-Art. , 2011, , .		6
77	A cloud infrastructure for scalable and elastic multimedia conferencing applications. , 2014, , .		6
78	Applicability of Mobile Agents to Telecommunications. <i>IEEE Network</i> , 2002, 16, 6-6.	4.9	5
79	A Novel Virtualized Presence Service for Future Internet. , 2011, , .		5
80	Control-level call differentiation in IMS-based 3G core networks. <i>IEEE Network</i> , 2011, 25, 20-28.	4.9	5
81	Cloud-based multimedia conferencing. , 2011, , .		5
82	A resource allocation mechanism for video mixing as a cloud computing service in multimedia conferencing applications. , 2015, , .		5
83	Application Components Migration in NFV-based Hybrid Cloud/Fog Systems. , 2019, , .		5
84	Cost-Efficient Server Provisioning for Deadline-Constrained VNFs Chains: A Parallel VNF Processing Approach. , 2019, , .		5
85	A Case Study on the Deployment of a Tactile Internet Application in a Hybrid Cloud, Edge, and Mobile Ad Hoc Cloud Environment. <i>IEEE Systems Journal</i> , 2022, 16, 1182-1193.	2.9	5
86	Automated Concept Drift Handling for Fault Prediction in Edge Clouds Using Reinforcement Learning. <i>IEEE Transactions on Network and Service Management</i> , 2022, 19, 1321-1335.	3.2	5
87	Advanced service architecture for H.323 Internet Protocol Telephony. <i>Computer Communications</i> , 2000, 23, 740-753.	3.1	4
88	A Novel Business Model for Web Service Composition. , 2006, , .		4
89	An Architecture for Composing Registries when Ambient Networks Compose. , 2007, , .		4
90	A Novel Session Recovery Mechanism for Cluster-based Signaling Architecture for Conferencing in MANETs. , 2007, , .		4

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91	A Negotiation Framework for the Composition of Registries in Ambient Networks. Proceedings - International Symposium on Computers and Communications, 2007, , .	0.0	4
92	SIP Servlets for Service Provisioning in Multihop Cellular Networks: High-Level Architectural Alternatives. , 2008, , .		4
93	The design and implementation of architectural components for the integration of the IP multimedia subsystem and wireless actuator networks. , 2011, 49, 138-146.		4
94	A 3GPP 4G Evolved Packet Core-based system architecture for QoS-enabled mobile video surveillance applications. , 2012, , .		4
95	A RESTfull architecture for enabling rapid development and deployment of companion robot applications. , 2014, , .		4
96	An Architecture for Multimedia Delivery Over Service Specific Overlay Networks. , 2008, , 97-112.		4
97	A Novel Service Mobility Architecture for SIP Environments. Journal of Computer Science, 2007, 3, 666-672.	0.5	4
98	Ensuring Profit and QoS When Dynamically Embedding Delay-Constrained ICN and IP Slices for Content Delivery. IEEE Transactions on Network Science and Engineering, 2022, 9, 769-782.	4.1	4
99	Web Services-Based Architecture for the Interactions between End-User Applications and Sink-Less Wireless Sensor Networks. , 2007, , .		3
100	A cross-layer architecture for signaling in multihop cellular networks. , 2008, 46, 174-182.		3
101	Automatic QoS adaptation for composite web services. , 2008, , .		3
102	An Overlay Gateway for the Integration of IP Multimedia Subsystem and Mobile Sink Based - Wireless Sensor Networks. , 2010, , .		3
103	A novel architecture for a Peer-to-Peer Session Initiation Protocol. , 2010, , .		3
104	A cloud based — Architecture for cost-efficient applications and services provisioning in wireless sensor networks. , 2013, , .		3
105	Multiparty/multimedia conferencing in mobile Ad Hoc networks for improving communications between firefighters. , 2013, , .		3
106	Virtualized infrastructure for video game applications in cloud environments. , 2014, , .		3
107	A case study on IVR applications' provisioning as cloud computing services. IEEE Network, 2014, 28, 33-41.	4.9	3
108	IoT End-User Applications Provisioning in the Cloud: State of the Art. , 2016, , .		3

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109	A Predictive Framework for Haptic Enabled VR-based Remote Phobia Treatment in Cloud/Fog Environment. , 2021, , .		3
110	Joint Admission Control and Resource Allocation With Parallel VNF Processing for Time-Constrained Chains of Virtual Network Functions. IEEE Access, 2021, 9, 162553-162571.	2.6	3
111	The standards aspects of SS7 network management. Journal of Network and Systems Management, 1994, 2, 233-256.	3.3	2
112	Use of SS7 in D-AMPS-based PCS: orthodoxy vs. heterodoxy. IEEE Personal Communications, 1997, 4, 15-23.	4.5	2
113	A Megaco Based-Architecture for Controlling Media Mixers When Conferencing in Mobile Ad Hoc Networks. , 2007, , .		2
114	An Overlay Architecture for Information Publication and Discovery After the Composition of Registries in Ambient Networks. , 2007, , .		2
115	Categorizing and Assembling Web Services in a Composition Framework. , 2008, , .		2
116	Charging for Multi-grade Services in the IP Multimedia Subsystem. , 2008, , .		2
117	A Novel Lookup Service Enabler for Presence-Based Applications and Its Architecture in the 3GPP IP Multimedia Subsystem. , 2009, , .		2
118	Media handling for multimedia conferencing in multihop cellular networks. IEEE Network, 2009, 23, 35-42.	4.9	2
119	A Novel Architecture for Floor Control in the IP Multimedia Subsystem of 3G Networks. , 2009, , .		2
120	A formal description framework and a matchmaking technique for web service composition. International Journal of Web Information Systems, 2010, 6, 24-54.	1.3	2
121	Overcoming NAT traversal issue for SIP-based communication in P2P networks. , 2011, , .		2
122	An overlay network for autonomous information discovery in the post-composition registries of ambient networks. Journal of Network and Computer Applications, 2011, 34, 697-707.	5.8	2
123	Towards cloud-based architectures for robotic applications provisioning. , 2013, , .		2
124	A social network-based architecture for on-line RoSCAs in the developing world. , 2013, , .		2
125	A SIP servlets-based framework for service provisioning in stand-alone MANETs. Journal of Network and Computer Applications, 2013, 36, 147-155.	5.8	2
126	A DNS protocol - based Service Discovery architecture for disaster response systems. , 2013, , .		2

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127	Genetic-based algorithms for resource management in virtualized IVR applications. Journal of Cloud Computing: Advances, Systems and Applications, 2014, 3, .	2.1	2
128	Towards HSS as a virtualized service for 5G networks. , 2015, , .		2
129	An architecture for M2M enabled social networks. , 2015, , .		2
130	A Virtual Network PaaS for 3GPP 4G and Beyond Core Network Services. , 2016, , .		2
131	A prototype for value-added video service provisioning in content delivery networks. , 2017, , .		2
132	An Infrastructure as a Service for the Internet of Things. , 2018, , .		2
133	Energy Efficient Virtual Network Embedding in Virtualized Wireless Sensor Networks. , 2022, , .		2
134	Signalling system number 7 network services part and X.25: A comparative study. Computer Networks, 1994, 26, 1495-1502.	1.0	1
135	Contrasting OSI Systems Management to SNMP and TMN. Journal of Network and Systems Management, 1998, 6, 113-133.	3.3	1
136	Using web services for presence-based application development. International Journal of Web and Grid Services, 2006, 2, 167.	0.4	1
137	Validation of a Negotiation Protocol for Registry Composition in Ambient Networks. , 2007, , .		1
138	Cross-Layer Design for Optimizing the Performance of Clusters-Based Application Layer Schemes in Mobile Ad Hoc Networks. , 2007, , .		1
139	An Overlay Network for a SIP Servlet-Based Service Execution Environment in Stand Alone MANETs. , 2008, , .		1
140	Integrating wireless actuation capabilities with the 3GPP IP Multimedia Subsystem for enhanced multimedia services. , 2010, , .		1
141	A Peer to Peer Architecture for Enabling a Universal Presence Service. , 2010, , .		1
142	Proxy topology building and routing in P2P SIP architectures. , 2010, , .		1
143	Implementing OMA RESTful location services in wireless sensor environments. , 2012, , .		1
144	The design and implementation of OMA restful location services in wireless sensor environments. , 2013, 51, 122-131.		1

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145	Differentiated QoS for overlay-based disaster response systems. , 2014, , .		1
146	Context-Aware Emergency Notification Service over 4G EPC Network: Concept and Design. , 2015, , .		1
147	A case study for a presence service in the cloud. , 2016, , .		1
148	Popularity and Correlation-Aware Content Placement for Hierarchical Surrogates in Cloud-Based CDNs. , 2017, , .		1
149	Purging-Aware Content Placement in Fog-Based Content Delivery Networks. , 2018, , .		1
150	Retrieving Information from the Invisible Web Using Mobile Agents. Journal of Computer Science, 2005, 1, 283-289.	0.5	1
151	An Extensible Mobile-Agent-Based Framework for Coordinating Distributed Information Retrieval Applications. Lecture Notes in Computer Science, 2002, , 281-291.	1.0	1
152	An Unsupervised Machine Learning-based Method for Detection and Explanation of Anomalies in Cloud Environments. , 2022, , .		1
153	A Cloud Infrastructure as a Service for an Efficient Usage of Sensing and Actuation Capabilities in Internet of Things. , 2022, , .		1
154	TMN-based schedulers for SS7 routing verification tests. Computer Communications, 1997, 20, 428-434.	3.1	0
155	Editor's note: A new department. IEEE Communications Surveys and Tutorials, 2000, 3, 1-1.	24.8	0
156	Service Infrastructures. , 2006, , 59-110.		0
157	An IETF NSIS-Based Signaling Framework for Negotiating Registry Composition in Ambient Networks. Networks, 2008 ICON 2008 16th IEEE International Conference on, 2007, , .	0.0	0
158	Provisioning Services in Multihop Cellular Networks when the End-Users Are in the Mobile Ad-Hoc Network Portion. , 2008, , .		0
159	Data Inter-Working Aspect of Network Cooperation in 4G: The Case of Registry Composition in Ambient Networks. , 2008, , .		0
160	Agent-based algorithms for collaborative price search in electronic commerce: A case study and performance evaluation. Intelligent Decision Technologies, 2008, 2, 141-152.	0.6	0
161	A case study on multiparty multimedia game development in the IP Multimedia Subsystem. , 2009, , .		0
162	A case study of a presence based end-user lookup service for the dynamic discovery of entities across technologies and domains. , 2010, 48, 82-89.		0

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163	A Case Study on Multiparty Calls Differentiation in the IP Multimedia Subsystem. , 2010, , .		0
164	PervCal4D: A pervasive on-line calendar system for developing countries. , 2012, , .		0
165	Subscriber data and semantic web for provisioning novel end-user services in telecommunication networks. , 2012, 50, 42-50.		0
166	An architecture for QoS-enabled video telephony in a 3GPP 4G evolved packet core environment. , 2013, , .		0
167	Quality of experience-enabled social networks. , 2014, , .		0
168	Social Network Analysis Inspired Content Placement with QoS in Cloud Based Content Delivery Networks. , 2014, , .		0
169	Overlay interconnection for end-user applications and wireless sensor networks in MANETs. , 2015, , .		0
170	A framework for ontology provisioning in Virtualized Wireless Sensor Networks. , 2016, , .		0
171	Towards Inclusive Social Networks for the Developing World. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 42-52.	0.2	0
172	Trace-Driven Haptic Traffic Characterization for Tactile Internet Performance Evaluation. , 2021, , .		0