Roch H Glitho

List of Publications by Year
in descending order

172 papers	2,636 citations	567281 15 h-index	265206 42 g-index
177 all docs	177 docs citations	177 times ranked	2756 citing authors

#	Article	IF	Citations
1	A Case Study on the Deployment of a Tactile Internet Application in a Hybrid Cloud, Edge, and Mobile Ad Hoc Cloud Environment. IEEE Systems Journal, 2022, 16, 1182-1193.	4.6	5
2	Ensuring Energy Efficiency When Dynamically Assigning Tasks in Virtualized Wireless Sensor Networks. IEEE Transactions on Green Communications and Networking, 2022, 6, 613-628.	5.5	8
3	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.	6.4	4
4	Energy Efficient Virtual Network Embedding in Virtualized Wireless Sensor Networks. , 2022, , .		2
5	Joint VNF Placement and Scheduling for Latency-Sensitive Services. IEEE Transactions on Network Science and Engineering, 2022, 9, 2432-2449.	6.4	12
6	Automated Concept Drift Handling for Fault Prediction in Edge Clouds Using Reinforcement Learning. IEEE Transactions on Network and Service Management, 2022, 19, 1321-1335.	4.9	5
7	An Unsupervised Machine Learning-based Method for Detection and Explanation of Anomalies in Cloud Environments. , 2022, , .		1
8	A Cloud Infrastructure as a Service for an Efficient Usage of Sensing and Actuation Capabilities in Internet of Things. , 2022, , .		1
9	Efficient Replica Migration Scheme for Distributed Cloud Storage Systems. IEEE Transactions on Cloud Computing, 2021, 9, 155-167.	4.4	16
10	A Comprehensive Survey of the Tactile Internet: State-of-the-Art and Research Directions. IEEE Communications Surveys and Tutorials, 2021, 23, 472-523.	39.4	66
11	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.	4.9	9
12	A Predictive Framework for Haptic Enabled VR-based Remote Phobia Treatment in Cloud/Fog Environment. , 2021, , .		3
13	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.	4.9	11
14	DECA: A Dynamic Energy Cost and Carbon Emission-Efficient Application Placement Method for Edge Clouds. IEEE Access, 2021, 9, 70192-70213.	4.2	16
15	Joint Admission Control and Resource Allocation With Parallel VNF Processing for Time-Constrained Chains of Virtual Network Functions. IEEE Access, 2021, 9, 162553-162571.	4.2	3
16	Auto-adaptive Fault Prediction System for Edge Cloud Environments in the Presence of Concept Drift. , 2021, , .		8
17	Trace-Driven Haptic Traffic Characterization for Tactile Internet Performance Evaluation. , 2021, , .		0
18	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.	4.9	17

#	Article	IF	Citations
19	Market Driven Multidomain Network Service Orchestration in 5G Networks. IEEE Journal on Selected Areas in Communications, 2020, 38, 1417-1431.	14.0	14
20	An IoT Platform-as-a-Service for NFV-Based Hybrid Cloud/Fog Systems. IEEE Internet of Things Journal, 2020, 7, 6102-6115.	8.7	19
21	A Framework for Predicting Haptic Feedback in Needle Insertion in 5G Remote Robotic Surgery. , 2020, , .		12
22	An SDN-Based Framework for Routing Multi-Streams Transport Traffic Over Multipath Networks. , 2019, , .		14
23	Application Components Migration in NFV-based Hybrid Cloud/Fog Systems. , 2019, , .		5
24	Resource Allocation Mechanism for Media Handling Services in Cloud Multimedia Conferencing. IEEE Journal on Selected Areas in Communications, 2019, 37, 1167-1181.	14.0	10
25	Cost-Efficient Server Provisioning for Deadline-Constrained VNFs Chains: A Parallel VNF Processing Approach. , 2019, , .		5
26	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.	14.0	62
27	A Fog-Based Architecture for Remote Phobia Treatment. , 2019, , .		8
28	A Cloud-Based Architecture for Multimedia Conferencing Service Provisioning. IEEE Access, 2018, 6, 9792-9806.	4.2	7
29	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.	4.9	67
30	A Comprehensive Survey on Fog Computing: State-of-the-Art and Research Challenges. IEEE Communications Surveys and Tutorials, 2018, 20, 416-464.	39.4	731
31	Online VNF Placement and Chaining for Value-added Services in Content Delivery Networks. , 2018, , .		18
32	Purging-Aware Content Placement in Fog-Based Content Delivery Networks. , 2018, , .		1
33	An Infrastructure as a Service for the Internet of Things. , 2018, , .		2
34	Application Component Placement in NFV-based Hybrid Cloud/Fog Systems. , 2018, , .		20
35	NFV and SDN-Based Distributed IoT Gateway for Large-Scale Disaster Management. IEEE Internet of Things Journal, 2018, 5, 4119-4131.	8.7	39
36	Towards Inclusive Social Networks for the Developing World. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 42-52.	0.3	0

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37	CCVP: Cost-efficient centrality-based VNF placement and chaining algorithm for network service provisioning. , 2017, , .		32
38	NFV and SDN-based cost-efficient and agile value-added video services provisioning in content delivery networks. , 2017, , .		9
39	On the Placement of VNF Managers in Large-Scale and Distributed NFV Systems. IEEE Transactions on Network and Service Management, 2017, 14, 875-889.	4.9	37
40	A coalition formation algorithm for Multi-Robot Task Allocation in large-scale natural disasters. , 2017, , .		28
41	A prototype for value-added video service provisioning in content delivery networks. , 2017, , .		2
42	A Survey on Replica Server Placement Algorithms for Content Delivery Networks. IEEE Communications Surveys and Tutorials, 2017, 19, 1002-1026.	39.4	71
43	Popularity and Correlation-Aware Content Placement for Hierarchical Surrogates in Cloud-Based CDNs. , 2017, , .		1
44	A Hybrid Regression Model for Video Popularity-Based Cache Replacement in Content Delivery Networks. , 2016, , .		13
45	A Virtual Network PaaS for 3GPP 4G and Beyond Core Network Services. , 2016, , .		2
46	A Cloud Platform-as-a-Service for multimedia conferencing service provisioning. , 2016, , .		9
47	A case study for a presence service in the cloud. , 2016, , .		1
48	A Demo of IoT Healthcare Application Provisioning in Hybrid Cloud/Fog Environment. , 2016, , .		27
49	A genetic algorithm-based solution for efficient in-network sensor data annotation in virtualized Wireless Sensor Networks. , 2016, , .		8
50	Greedy heuristic for replica server placement in Cloud based Content Delivery Networks. , 2016, , .		8
51	Approaches to end-user applications portability in the cloud: A survey. , 2016, 54, 138-145.		11
52	A framework for ontology provisioning in Virtualized Wireless Sensor Networks. , 2016, , .		0
53	CACEV: A Cost and Carbon Emission-Efficient Virtual Machine Placement Method for Green Distributed Clouds. , 2016, , .		19
54	An Architecture for QoS-Enabled Mobile Video Surveillance Applications in a 4G EPC and M2M Environment. IEEE Access, 2016, 4, 4082-4093.	4.2	12

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55	A demo of a PaaS for IoT applications provisioning in hybrid cloud/fog environment. , 2016, , .		7
56	A platform as-a-service for hybrid cloud/fog environments. , 2016, , .		64
57	IoT End-User Applications Provisioning in the Cloud: State of the Art. , 2016, , .		3
58	Network functions virtualization architecture for gateways for virtualized wireless sensor and actuator networks. IEEE Network, 2016, 30, 72-80.	6.9	8
59	Cloudifying the 3GPP IP multimedia subsystem for 4G and beyond: A survey. , 2016, 54, 91-97.		20
60	Service composition for IP smart object using realtime Web protocols: Concept and research challenges. Computer Standards and Interfaces, 2016, 43, 79-90.	5.4	41
61	Wireless sensor network virtualization: A survey. IEEE Communications Surveys and Tutorials, 2016, 18, 553-576.	39.4	254
62	Social Network Analysis Inspired Content Placement with QoS in Cloud Based Content Delivery Networks. , 2015, , .		13
63	Wireless sensor network virtualization: early architecture and research perspectives. IEEE Network, 2015, 29, 104-112.	6.9	60
64	Towards HSS as a virtualized service for 5G networks. , 2015, , .		2
65	Overlay interconnection for end-user applications and wireless sensor networks in MANETs. , 2015, , .		0
66	On optimizing replica migration in distributed cloud storage systems. , 2015, , .		8
67	A resource allocation mechanism for video mixing as a cloud computing service in multimedia conferencing applications. , 2015, , .		5
68	An architecture for M2M enabled social networks. , 2015, , .		2
69	NFV based gateways for virtualized wireless sensor networks: A case study. , 2015, , .		12
70	Context-Aware Emergency Notification Service over 4G EPC Network: Concept and Design. , 2015, , .		1
71	Getting Virtualized Wireless Sensor Networks' IaaS Ready for PaaS. , 2015, , .		9
72	A data annotation architecture for semantic applications in virtualized wireless sensor networks. , 2015, , .		25

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73	Quality of experience-enabled social networks. , 2014, , .		0
74	Virtualized infrastructure for video game applications in cloud environments. , 2014, , .		3
75	A RESTfull architecture for enabling rapid development and deployment of companion robot applications. , 2014, , .		4
76	Differentiated QoS for overlay-based disaster response systems. , 2014, , .		1
77	Genetic-based algorithms for resource management in virtualized IVR applications. Journal of Cloud Computing: Advances, Systems and Applications, 2014, 3, .	3.9	2
78	A cloud infrastructure for scalable and elastic multimedia conferencing applications. , 2014, , .		6
79	Cloudifying the 3GPP IP Multimedia Subsystem: Why and How?. , 2014, , .		8
80	An infrastructure for robotic applications as cloud computing services. , 2014, , .		11
81	A case study on IVR applications' provisioning as cloud computing services. IEEE Network, 2014, 28, 33-41.	6.9	3
82	Social Network Analysis Inspired Content Placement with QoS in Cloud Based Content Delivery Networks. , 2014, , .		0
83	A cloud based &#x2014; Architecture for cost-efficient applications and services provisioning in wireless sensor networks. , 2013, , .		3
84	Multiparty/multimedia conferencing in mobile Ad Hoc networks for improving communications between firefighters. , 2013, , .		3
85	Towards cloud-based architectures for robotic applications provisioning. , 2013, , .		2
86	A social network-based architecture for on-line RoSCAs in the developing world. , 2013, , .		2
87	The design and implementation of OMA restful location services in wireless sensor environments. , 2013, 51, 122-131.		1
88	A SIP servlets-based framework for service provisioning in stand-alone MANETs. Journal of Network and Computer Applications, 2013, 36, 147-155.	9.1	2
89	An architecture for QoS-enabled video telephony in a 3GPP 4G evolved packet core environment. , 2013, , .		0
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91	A 3GPP 4G Evolved Packet Core-based system architecture for QoS-enabled mobile video surveillance applications. , 2012, , .		4
92	PervCal4D: A pervasive on-line calendar system for developing countries. , 2012, , .		0
93	SOAP-Based vs. RESTful Web Services: A Case Study for Multimedia Conferencing. IEEE Internet Computing, 2012, 16, 54-63.	3.3	35
94	Implementing OMA RESTful location services in wireless sensor environments. , 2012, , .		1
95	A novel architecture for Web service composition. Journal of Network and Computer Applications, 2012, 35, 787-802.	9.1	29
96	Subscriber data and semantic web for provisioning novel end-user services in telecommunication networks. , 2012, 50, 42-50.		0
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98	A Novel Virtualized Presence Service for Future Internet. , 2011, , .		5
99	Cloud-based Multimedia Conferencing: Business Model, Research Agenda, State-of-the-Art. , 2011, , .		6
100	Control-level call differentiation in IMS-based 3G core networks. IEEE Network, 2011, 25, 20-28.	6.9	5
101	Overcoming NAT traversal issue for SIP-based communication in P2P networks. , 2011, , .		2
102	RESTful web services for service provisioning in next-generation networks: a survey. , 2011, 49, 66-73.		72
103	The design and implementation of architectural components for the integration of the IP multimedia subsystem and wireless actuator networks. , 2011, 49, 138-146.		4
104	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.	9.1	2
105	Cloud-based multimedia conferencing. , 2011, , .		5
106	Application architectures for machine to machine communications: Research agenda vs. state-of-the art. , 2011, , .		10
107	Integrating wireless actuation capabilities with the 3GPP IP Multimedia Subsystem for enhanced multimedia services. , 2010, , .		1
108	The design and implementation of architectural components for the integration of the IP multimedia subsystem and wireless sensor networks. , 2010, 48, 42-50.		13

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109	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
110	RESTful web services for bridging presence service across technologies and domains: an early feasibility prototype. , 2010, 48, 92-100.		19
111	A formal description framework and a matchmaking technique for web service composition. International Journal of Web Information Systems, 2010, 6, 24-54.	2.4	2
112	A Case Study on Multiparty Calls Differentiation in the IP Multimedia Subsystem. , 2010, , .		0
113	An Overlay Gateway for the Integration of IP Multimedia Subsystem and Mobile Sink Based - Wireless Sensor Networks. , 2010, , .		3
114	A Peer to Peer Architecture for Enabling a Universal Presence Service. , 2010, , .		1
115	A novel architecture for a Peer-to-Peer Session Initiation Protocol. , 2010, , .		3
116	Proxy topology building and routing in P2P SIP architectures. , 2010, , .		1
117	The Design and Implementation of a Gateway for IP Multimedia Subsystem/Wireless Sensor Networks Interworking. , 2009, , .		6
118	Efficient traces' collection mechanisms for passive testing of Web Services. Information and Software Technology, 2009, 51, 362-374.	4.4	20
119	A Novel Lookup Service Enabler for Presence-Based Applications and Its Architecture in the 3GPP IP Multimedia Subsystem. , 2009, , .		2
120	Media handling for multimedia conferencing in multihop cellular networks. IEEE Network, 2009, 23, 35-42.	6.9	2
121	A case study on multiparty multimedia game development in the IP Multimedia Subsystem. , 2009, , .		0
122	A Novel Architecture for Floor Control in the IP Multimedia Subsystem of 3G Networks. , 2009, , .		2
123	Signaling for Multimedia Conferencing in Stand-Alone Mobile Ad Hoc Networks. IEEE Transactions on Mobile Computing, 2009, 8, 991-1005.	5.8	12
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125	Enhancing the QoS and Resource Management Aspects of the 3GPP IMS Emergency Service Architecture. , 2008, , .		6
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127	Categorizing and Assembling Web Services in a Composition Framework. , 2008, , .		2
128	A cross-layer architecture for signaling in multihop cellular networks. , 2008, 46, 174-182.		3
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130	SIP Servlets for Service Provisioning in Multihop Cellular Networks: High-Level Architectural Alternatives. , 2008, , .		4
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139	Web Services-Based Architecture for the Interactions between End-User Applications and Sink-Less Wireless Sensor Networks. , 2007, , .		3
140	Mobile Network Supported Wireless Sensor Network Services. , 2007, , .		14
141	A business model for dynamic composition of telecommunication web services. , 2007, 45, 36-43.		13
142	An Architecture for Composing Registries when Ambient Networks Compose. , 2007, , .		4
143	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
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145	A Megaco Based-Architecture for Controlling Media Mixers When Conferencing in Mobile Ad Hoc Networks. , 2007, , .		2
146	An Overlay Architecture for Information Publication and Discovery After the Composition of Registries in Ambient Networks. , 2007, , .		2
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148	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
149	Validation of a Negotiation Protocol for Registry Composition in Ambient Networks. , 2007, , .		1
150	Cross-Layer Design for Optimizing the Performance of Clusters-Based Application Layer Schemes in Mobile Ad Hoc Networks. , 2007, , .		1
151	Context-Aware Signaling for Call Differentiation in IMS-Based 3G Networks. Proceedings - International Symposium on Computers and Communications, 2007, , .	0.0	8
152	A Novel Service Mobility Architecture for SIP Environments. Journal of Computer Science, 2007, 3, 666-672.	0.6	4
153	Service Infrastructures. , 2006, , 59-110.		0
154	Using web services for presence-based application development. International Journal of Web and Grid Services, 2006, 2, 167.	0.5	1
155	A Novel Business Model for Web Service Composition. , 2006, , .		4
156	Towards the Testing of Composed Web Services in 3rd Generation Networks. Lecture Notes in Computer Science, 2006, , 118-133.	1.3	10
157	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.	2.4	8
158	An Improved Itinerary Recording Protocol for Securing Distributed Architectures Based on Mobile Agents. Mobile Information Systems, 2005, 1, 129-147.	0.6	8
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160	Contextware Research Challenges in Ambient Networks. Lecture Notes in Computer Science, 2004, , 62-77.	1.3	13
161	A mobile agent-based advanced service architecture for wireless internet telephony: design, implementation, and evaluation. IEEE Transactions on Computers, 2003, 52, 690-704.	3.4	13
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165	Editor's note: A new department. IEEE Communications Surveys and Tutorials, 2000, 3, 1-1.	39.4	0
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167	Mobile Agent-Based Network and Service Management. Journal of Network and Systems Management, 1999, 7, 267-270.	4.9	11
168	Contrasting OSI Systems Management to SNMP and TMN. Journal of Network and Systems Management, 1998, 6, 113-133.	4.9	1
169	Use of SS7 in D-AMPS-based PCS: orthodoxy vs. heterodoxy. IEEE Personal Communications, 1997, 4, 15-23.	3.8	2
170	TMN-based schedulers for SS7 routing verification tests. Computer Communications, 1997, 20, 428-434.	5.1	0
171	Signalling system number 7 network services part and X.25: A comparative study. Computer Networks, 1994, 26, 1495-1502.	1.0	1
172	The standards aspects of SS7 network management. Journal of Network and Systems Management, 1994, 2, 233-256.	4.9	2