Luigi Atzori

List of Publications by Year
in descending order

100 papers	16,929 citations	201674 27 h-index	123424 61 g-index
101 all docs	101 docs citations	101 times ranked	14528 citing authors

#	Article	IF	Citations
1	The Internet of Things: A survey. Computer Networks, 2010, 54, 2787-2805.	5.1	11,690
2	The Social Internet of Things (SIoT) â€" When social networks meet the Internet of Things: Concept, architecture and network characterization. Computer Networks, 2012, 56, 3594-3608.	5.1	1,041
3	SIoT: Giving a Social Structure to the Internet of Things. IEEE Communications Letters, 2011, 15, 1193-1195.	4.1	488
4	From "smart objects" to "social objects": The next evolutionary step of the internet of things. , 2014, 52, 97-105.		431
5	Understanding the Internet of Things: definition, potentials, and societal role of a fast evolving paradigm. Ad Hoc Networks, 2017, 56, 122-140.	5.5	396
6	Trustworthiness Management in the Social Internet of Things. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 1253-1266.	5.7	378
7	Internet of multimedia things: Vision and challenges. Ad Hoc Networks, 2015, 33, 87-111.	5.5	203
8	The Virtual Object as a Major Element of the Internet of Things: A Survey. IEEE Communications Surveys and Tutorials, 2016, 18, 1228-1240.	39.4	168
9	Friendship Selection in the Social Internet of Things: Challenges and Possible Strategies. IEEE Internet of Things Journal, 2015, 2, 240-247.	8.7	144
10	QoE Management of Multimedia Streaming Services in Future Networks: A Tutorial and Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 526-565.	39.4	125
11	A subjective model for trustworthiness evaluation in the social Internet of Things. , 2012, , .		121
12	Lysis: A Platform for IoT Distributed Applications Over Socially Connected Objects. IEEE Internet of Things Journal, 2017, 4, 40-51.	8.7	94
13	The problem of task allocation in the Internet of Things and the consensus-based approach. Computer Networks, 2014, 73, 98-111.	5.1	69
14	Smart Home Energy Management Including Renewable Sources: A QoE-driven Approach. IEEE Transactions on Smart Grid, 2016, , 1-1.	9.0	66
15	On adding the social dimension to the Internet of Vehicles: Friendship and middleware. , 2014, , .		62
16	The urinary [1]Hâ€NMR metabolomics profile of an italian autistic children population and their unaffected siblings. Autism Research, 2017, 10, 1058-1066.	3.8	59
17	Network navigability in the social Internet of Things. , 2014, , .		58
18	How to exploit the Social Internet of Things: Query Generation Model and Device Profilesâ€™ Dataset. Computer Networks, 2020, 174, 107248.	5.1	58

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19	A Social-Relationships-Based Service Recommendation System for SIoT Devices. IEEE Internet of Things Journal, 2021, 8, 1859-1870.	8.7	56
20	Smart things in the social loop: Paradigms, technologies, and potentials. Ad Hoc Networks, 2014, 18, 121-132.	5.5	55
21	PMU-Based Distribution System State Estimation with Adaptive Accuracy Exploiting Local Decision Metrics and IoT Paradigm. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 704-714.	4.7	48
22	Social Virtual Objects in the Edge Cloud. IEEE Cloud Computing, 2015, 2, 20-28.	3.9	47
23	Quality of Experience in the Multimedia Internet of Things: Definition and practical use-cases. , 2015, , .		43
24	Managing the Quality of Experience in the Multimedia Internet of Things: A Layered-Based Approach. Sensors, 2016, 16, 2057.	3.8	42
25	The Role of Satellite Communications in the Smart Grid. IEEE Wireless Communications, 2017, 24, 50-56.	9.0	41
26	IoT-Enabled Social Relationships Meet Artificial Social Intelligence. IEEE Internet of Things Journal, 2021, 8, 17817-17828.	8.7	41
27	Deployment of Distributed Applications in Wireless Sensor Networks. Sensors, 2011, 11, 7395-7419.	3.8	38
28	QoE-centric service delivery: A collaborative approach among OTTs and ISPs. Computer Networks, 2016, 110, 168-179.	5.1	38
29	TAN: A Distributed Algorithm for Dynamic Task Assignment in WSNs. IEEE Sensors Journal, 2014, 14, 1266-1279.	4.7	36
30	Challenges of future multimedia QoE monitoring for internet service providers. Multimedia Tools and Applications, 2017, 76, 22243-22266.	3.9	36
31	Implementation of an Experimental Platform for the Social Internet of Things. , 2013, , .		33
32	Evaluation of Data Augmentation Techniques for Facial Expression Recognition Systems. Electronics (Switzerland), 2020, 9, 1892.	3.1	32
33	Task allocation in group of nodes in the IoT: A consensus approach. , 2014, , .		30
34	A Dataset for Performance Analysis of the Social Internet of Things. , 2018, , .		30
35	Metabolomic profile of systemic sclerosis patients. Scientific Reports, 2018, 8, 7626.	3.3	30
36	Towards the implementation of the Social Internet of Vehicles. Computer Networks, 2018, 147, 132-145.	5.1	29

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37	An IoT-Based Smart Building Solution for Indoor Environment Management and Occupants Prediction. Energies, 2021, 14, 2959.	3.1	21
38	A Social IoT-based platform for the deployment of a smart parking solution. Computer Networks, 2022, 205, 108756.	5.1	20
39	Indoor navigation system using image and sensor data processing on a smartphone. , 2012, , .		19
40	Playout buffering in ip telephony: a survey discussing problems and approaches. IEEE Communications Surveys and Tutorials, 2006, 8, 36-46.	39.4	18
41	WiFi Probes sniffing: an Artificial Intelligence based approach for MAC addresses de-randomization. , 2020, , .		18
42	Smart devices in the social loops: Criteria and algorithms for the creation of the social links. Future Generation Computer Systems, 2019, 97, 327-339.	7.5	17
43	Estimation of the Quality of Experience During Video Streaming From Facial Expression and Gaze Direction. IEEE Transactions on Network and Service Management, 2020, 17, 2702-2716.	4.9	17
44	Consensus-based resource allocation among objects in the internet of things. Annales Des Telecommunications/Annals of Telecommunications, 2017, 72, 415-429.	2.5	16
45	Dynamic Involvement of Real World Objects in the IoT: A Consensus-Based Cooperation Approach. Sensors, 2017, 17, 484.	3.8	16
46	MNO-OTT Collaborative Video Streaming in 5G: The Zero-Rated QoE Approach for Quality and Resource Management. IEEE Transactions on Network and Service Management, 2020, 17, 361-374.	4.9	16
47	How often social objects meet each other? Analysis of the properties of a social network of IoT devices based on real data. , 2013, , .		15
48	Pediatric Acute-onset Neuropsychiatric Syndrome and Mycoplasma Pneumoniae Infection: A Case Report Analysis with a Metabolomics Approach. Current Pediatric Reviews, 2020, 16, 183-193.	0.8	15
49	JPEG2000-coded image error concealment exploiting convex sets projections. IEEE Transactions on Image Processing, 2005, 14, 487-498.	9.8	14
50	Neighbor discovery algorithms for friendship establishment in the social Internet of Things. , 2016, , .		13
51	Trustworthiness management in the IoT: The importance of the feedback. , 2017, , .		13
52	Enhancing Identifier/Locator Splitting Through Social Internet of Things. IEEE Internet of Things Journal, 2019, 6, 2974-2985.	8.7	13
53	Assignment of Sensing Tasks to IoT Devices: Exploitation of a Social Network of Objects. IEEE Internet of Things Journal, 2019, 6, 2679-2692.	8.7	13
54	A novel Smart Home Energy Management system: Cooperative neighbourhood and adaptive renewable energy usage. , 2015, , .		12

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55	A cloud-based and RESTful Internet of Things platform to foster Smart Grid technologies integration and re-usability. , 2016, , .		12
56	A QoE-Aware Approach for Smart Home Energy Management. , 2015, , .		11
57	Timber: An SDN-Based Emulation Platform for Experimental Research on Video Streaming. IEEE Journal on Selected Areas in Communications, 2020, 38, 1374-1387.	14.0	11
58	Supervised-learning-Based QoE Prediction of Video Streaming in Future Networks: A Tutorial with Comparative Study. IEEE Communications Magazine, 2021, 59, 88-94.	6.1	11
59	Using a distributed Shapley-value based approach to ensure navigability in a social network of smart objects. , 2015, , .		10
60	Deployment of Applications in Wireless Sensor Networks: A Gossip-Based Lifetime Maximization Approach. IEEE Transactions on Control Systems Technology, 2016, 24, 1828-1836.	5.2	10
61	A SIoT-aware approach to the resource management issue in mobile crowdsensing. , 2017, , .		10
62	Application Task Allocation in Cognitive IoT: A Reward-Driven Game Theoretical Approach. IEEE Transactions on Wireless Communications, 2019, 18, 5571-5583.	9.2	10
63	Dynamic Radio Access Selection and Slice Allocation for Differentiated Traffic Management on Future Mobile Networks. IEEE Transactions on Network and Service Management, 2022, 19, 1965-1981.	4.9	10
64	Objects that agree on task frequency in the IoT: A lifetime-oriented consensus based approach. , 2014, , .		9
65	Addressing un-interoperability issues in QoE models: Is a layered modelling effective?. , 2014, , .		9
66	What the SIoT needs: A new caching system or new friendship selection mechanism?. , 2015, , .		9
67	IoT_ProSe: Exploiting 3GPP services for task allocation in the Internet of Things. Ad Hoc Networks, 2017, 66, 26-39.	5.5	9
68	Metabolomic Characterization of Pediatric Acute-Onset Neuropsychiatric Syndrome (PANS). Frontiers in Neuroscience, 2021, 15, 645267.	2.8	9
69	Urinary Metabolites Reveal Hyperinsulinemia and Insulin Resistance in Polycystic Ovarian Syndrome (PCOS). Metabolites, 2021, 11, 437.	2.9	9
70	A decentralized lifetime maximization algorithm for distributed applications in Wireless Sensor Networks. , 2012, , .		8
71	Cooperative task assignment for distributed deployment of applications in WSNs. , 2013, , .		8
72	Bandwidth and Accuracy-Aware State Estimation for Smart Grids Using Software Defined Networks. Energies, 2017, 10, 858.	3.1	7

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73	Automating Ticket Validation: A Key Strategy for Fare Clearing and Service Planning. , 2019, , .		7
74	First trimester metabolomics 1H-NMR study of the urinary profile predicts gestational diabetes mellitus development in obese women. Journal of Maternal-Fetal and Neonatal Medicine, 2022, 35, 8275-8283.	1.5	7
75	A Cloud-Based Platform of the Social Internet of Things. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 77-88.	0.3	7
76	Task Allocation Among Connected Devices: Requirements, Approaches, and Challenges. IEEE Internet of Things Journal, 2022, 9, 1009-1023.	8.7	7
77	Joint Routing and Playout Buffering of IP Telephony Flows in MANETs. Mobile Networks and Applications, 2008, 13, 297.	3.3	6
78	IoT-D2D task allocation: An award-driven game theory approach. , 2016, , .		6
79	A persuasive real-time carpooling service in a smart city: A case-study to measure the advantages in urban area. , 2017, , .		6
80	The virtual user: The holistic manager of our IoT applications. , 2018, , .		6
81	Implementation of a Magnetometer based Vehicle Detection System for Smart Parking applications. , 2020, , .		6
82	Estimation of Physical Layer Performance in WSNs Exploiting the Method of Indirect Observations. Journal of Sensor and Actuator Networks, 2012, 1, 272-298.	3.9	5
83	Transport Stratum Services in NGN: A SOA-Oriented Design. , 2010, , .		4
84	The impact of interactivity on the QoE: A preliminary analysis. , 2015, , .		4
85	Metabolomics and psychological features in fibromyalgia and electromagnetic sensitivity. Scientific Reports, 2020, 10, 20418.	3.3	4
86	Theoretical Models for Video on Demand Services on Peer-to-Peer Networks. International Journal of Digital Multimedia Broadcasting, 2009, 2009, 1-8.	0.6	3
87	Energy consumption management in Smart Homes: An M-Bus communication system. , 2014, , .		3
88	Adaptive PMU-based distribution system state estimation exploiting the cloud-based IoT paradigm. , 2016, , .		3
89	Urinary 1H-NMR Metabolic Signature in Subjects Undergoing Colonoscopy for Colon Cancer Diagnosis. Applied Sciences (Switzerland), 2020, 10, 5401.	2.5	3
90	Analysis of the quality of remote working experience: a speech-based approach. Quality and User Experience, 2022, 7, 2.	3.9	3

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91	Traffic Engineering in Next Generation Networks Using Genetic Algorithms. , 2008, , .		2
92	Carpooling in Urban Areas: A Real-Time Service Case-Study. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 157-166.	0.3	2
93	Beep4Me: Automatic Ticket Validation to Support Fare Clearing and Service Planning. Sensors, 2022, 22, 1543.	3.8	2
94	A Quality of Experience Prediction Model for Smart Home Energy Management Systems. , 2018, , .		1
95	Task Allocation in Clusters of Cognitive Nodes: A Remuneration-Aided Approach. , 2019, , .		1
96	Evaluating Peer Churn Effects on P2P-Based Video-on-Demand Services. , 2009, , .		0
97	Evaluation of Average Communication Interruption Time in MANETs. , 2011, , .		0
98	Bandwidth Self-Management in DS-TE Networks. , 2011, , .		0
99	A QoE-Aware Approach for Smart Home Energy Management. , 2014, , .		0
100	Virtual User in the IoT: Definition, Technologies and Experiments. Sensors, 2019, 19, 4489.	3.8	0