Jairo Gutierrez

List of Publications by Year
in descending order

94 papers	**1,422** citations	623188 **14** h-index	414034 **32** g-index
100 all docs	**100** docs citations	**100** times ranked	**1555** citing authors

#	Article	IF	Citations
1	Multi-Attribute Decision Making for Energy-Efficient Public Transport Network Selection in Smart Cities. Future Internet, 2022, 14, 42.	2.4	9
2	A Dynamic Algorithm for Interference Management in D2D-Enabled Heterogeneous Cellular Networks: Modeling and Analysis. Sensors, 2022, 22, 1063.	2.1	8
3	ISeeU2: Visually interpretable mortality prediction inside the ICU using deep learning and free-text medical notes. Expert Systems With Applications, 2022, 202, 117190.	4.4	7
4	LPWAN Key Exchange: A Centralised Lightweight Approach. Sensors, 2022, 22, 5065.	2.1	2
5	Multi-Area Throughput and Energy Optimization of UAV-Aided Cellular Networks Powered by Solar Panels and Grid. IEEE Transactions on Mobile Computing, 2021, 20, 2427-2444.	3.9	33
6	Early Detection of Prediabetes and T2DM Using Wearable Sensors and Internet-of-Things-Based Monitoring Applications. Applied Clinical Informatics, 2021, 12, 001-009.	0.8	9
7	In silico drug repurposing for the identification of potential candidate molecules against arboviruses infection. Antiviral Research, 2020, 173, 104668.	1.9	19
8	The Time-Free Comparison Model for Fault Diagnosis in Wireless Ad Hoc Networks. Mobile Networks and Applications, 2020, , 1.	2.2	0
9	Security in Low Powered Wide Area Networks: Opportunities for Software Defined Network-Supported Solutions. Electronics (Switzerland), 2020, 9, 1195.	1.8	19
10	A Neural Network-Based Sustainable Data Dissemination through Public Transportation for Smart Cities. Sustainability, 2020, 12, 10327.	1.6	10
11	A probabilistic comparison-based fault diagnosis for hybrid faults in mobile networks. Computer Communications, 2020, 156, 131-144.	3.1	3
12	DATM: a dynamic attribute trust model for efficient collaborative routing. Annals of Operations Research, 2019, 277, 293-310.	2.6	7
13	ISeeU: Visually interpretable deep learning for mortality prediction inside the ICU. Journal of Biomedical Informatics, 2019, 98, 103269.	2.5	54
14	A Mode Selection Algorithm for Mitigating Interference in D2D Enabled Next-Generation Heterogeneous Cellular Networks. , 2019, , .		4
15	Big Data Offloading using Smart Public Vehicles with Software Defined Connectivity. , 2019, , .		3
16	SecTrust-RPL: A secure trust-aware RPL routing protocol for Internet of Things. Future Generation Computer Systems, 2019, 93, 860-876.	4.9	197
17	Secure Routing Protocols Using Trust-Based Mechanisms in the Internet of Things for Smart City Environment Challenges and Future Trends. Advances in Computer and Electrical Engineering Book Series, 2019, , 103-129.	0.2	1
18	The Collaborative Use of Patients' Health-Related Information. , 2019, , 1713-1733.		0

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19	Features of Dengue and Chikungunya Infections of Colombian Children under 24‰Months of Age Admitted to the Emergency Department. Journal of Tropical Pediatrics, 2018, 64, 31-37.	0.7	11
20	More Than Old Wine in New Bottles: A Secure Live Virtual Machine Job Migration Framework for Cloud Systems Integrity. , 2018, , .		2
21	Clinical Decision Support for Early Detection of Prediabetes and Type 2 Diabetes Mellitus Using Wearable Technology. , 2018, 2018, 4456-4459.		7
22	Differential Diagnosis of Dengue and Chikungunya in Colombian Children Using Machine Learning. Lecture Notes in Computer Science, 2018, , 181-192.	1.0	2
23	Bridging the digital divide in Tonga through a sustainable multi-tenancy broadband infrastructure: Are we ready?. , 2018, , .		9
24	Toward trust based protocols in a pervasive and mobile computing environment: A survey. Ad Hoc Networks, 2018, 81, 143-159.	3.4	11
25	A Sustainable Connectivity Model of the Internet Access Technologies in Rural and Low-Income Areas. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 93-102.	0.2	4
26	Trust-Based Analytical Models for Secure Wireless Sensor Networks. Advances in Information Security, Privacy, and Ethics Book Series, 2018, , 47-65.	0.4	2
27	The Collaborative Use of Patients' Health-Related Information. Advances in Human Resources Management and Organizational Development Book Series, 2018, , 245-271.	0.2	0
28	Efficient Fault Identification Protocol for Dynamic Topology Networks Using Network Coding. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 230-239.	0.2	0
29	Sustainable Crowdsensing Data Dissemination Using Public Vehicles. , 2018, , 77-110.		0
30	A Trust-based Defence Scheme for Mitigating Blackhole and Selective Forwarding Attacks in the RPL Routing Protocol. Journal of Telecommunications and the Digital Economy, 2018, 6, 41-59.	0.4	1
31	Lifetime-Aware ISP Networks: Optimal Formulation and Solutions. IEEE/ACM Transactions on Networking, 2017, 25, 1924-1937.	2.6	7
32	A study of IoT-based post-disaster management. , 2017, , .		42
33	Performance study of block ACK and reverse direction in IEEE 802.11n using a Markov chain model. Journal of Network and Computer Applications, 2017, 78, 170-179.	5.8	5
34	A Cyber Physical Buses-and-Drones Mobile Edge Infrastructure for Large Scale Disaster Emergency Communications. , 2017, , .		13
35	Sustainable and Resilient Network Infrastructure Design for Cloud Data Centers. Service Science: Research and Innovations in the Service Economy, 2017, , 227-259.	1.1	0
36	Vehicle-to-infrastructure communication over multi-tier heterogeneous networks: A survey. Computer Networks, 2017, 112, 144-166.	3.2	71

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37	A testbed implementation of a trust-aware RPL routing protocol. , 2017, , .		11
38	Bringing 5G into Rural and Low-Income Areas: Is It Feasible?. IEEE Communications Standards Magazine, 2017, 1, 50-57.	3.6	90
39	UAV-assisted edge infrastructure for challenged networks. , 2017, , .		35
40	Sustainable massive data dissemination by using software defined connectivity approach. , 2017, , .		2
41	Optimal pricing strategy for 5G in rural areas with unmanned aerial vehicles and large cells. , 2017, , .		9
42	Connecting the unconnected 10% of New Zealanders by 2025: Is a MahiTahi approach possible?. , 2017, , .		7
43	A crowd sourced framework for neighbour assisted medical emergency system. , 2017, , .		6
44	Telco asks transp: Can you give me a ride in the era of big data?. , 2017, , .		2
45	A Trust-Aware RPL Routing Protocol to Detect Blackhole and Selective Forwarding Attacks. Journal of Telecommunications and the Digital Economy, 2017, 5, 50.	0.4	7
46	A Trust-Aware RPL Routing Protocol to Detect Blackhole and Selective Forwarding Attacks. Journal of Telecommunications and the Digital Economy, 2017, 5, 50-69.	0.4	28
47	A Reliability-Based Trust Model for Efficient Collaborative Routing in Wireless Networks. , 2016, , .		4
48	A Time-Free Comparison-Based System-Level Fault Diagnostic Model for Highly Dynamic Networks. , 2016, , .		3
49	Emergency broadcast system: A reverse 911 tsunami information dissemination system prototype. , 2016, , .		1
50	Securing RPL routing protocol from blackhole attacks using a trust-based mechanism. , 2016, , .		49
51	5G in rural and low-income areas: Are we ready?. , 2016, , .		28
52	Crash me if you can: Rethinking sustainable Data Center Networking from a topological perspective. , 2016, , .		1
53	A Lightweight Trust Design for IoT Routing. , 2016, , .		27
54	Understanding the Current Operation and Future Roles of Wireless Networks: Co-Existence, Competition and Co-Operation in the Unlicensed Spectrum Bands. IEEE Journal on Selected Areas in Communications, 2016, 34, 2829-2837.	9.7	18

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55	Machine Learning Models for Early Dengue Severity Prediction. Lecture Notes in Computer Science, 2016, , 247-258.	1.0	10
56	Secure routing for internet of things: A survey. Journal of Network and Computer Applications, 2016, 66, 198-213.	5.8	228
57	Comparison-based system-level fault diagnosis protocols for mobile ad-hoc networks: A survey. Journal of Network and Computer Applications, 2016, 60, 68-81.	5.8	13
58	A review of New Zealand Telecommunications: Legislation, Regulations, and Recommendations. Journal of Telecommunications and the Digital Economy, 2016, 4, 172.	0.4	1
59	When Internet Raised to the Things Power: Are Energy Efficiency Standards Sufficient to Curb Carbon Footprints?. , 2015, , .		2
60	Lifetime-aware networks: It is not what you know but who you know. , 2015, , .		0
61	GradeTrust: A secure trust based routing protocol for MANETs. , 2015, , .		12
62	A User Profile-Aware Policy-Based Management Framework for Greening the Cloud. , 2014, , .		8
63	Revisiting the issue of the credibility of simulation studies in telecommunication networks: highlighting the results of a comprehensive survey of IEEE publications. , 2014, 52, 218-224.		16
64	Policy-based pricing for pervasive services in future heterogeneous wireless access networks. , 2014, , .		1
65	An Energy Efficient Scheduling Manager for Cloud-Based Mobile Navigation Applications. International Journal of Business Data Communications and Networking, 2014, 10, 47-68.	1.2	0
66	EESManager: Making greener cloud apps. , 2013, , .		3
67	How Evolving Network Access and Network Management Technologies are Redefining the Competitive Wireless Markets. , 2013, , 220-239.		0
68	The Impact of Traffic Type and Node Mobility on an 802.16 Mobile WiMAX for Varying Network Sizes. International Journal of Advanced Pervasive and Ubiquitous Computing, 2013, 5, 63-80.	0.4	0
69	Adoption of RFID in Supply Chains. , 2011, , 54-63.		2
70	How Evolving Network Access and Network Management Technologies are Redefining the Competitive Wireless Markets. International Journal of Business Data Communications and Networking, 2011, 7, 51-69.	1.2	1
71	An evaluation framework for viable business models for m-commerce in the information technology sector. Electronic Markets, 2010, 20, 33-52.	4.4	53
72	Technology and market conditions toward a new competitive landscape in the wireless access market. , 2010, 48, 46-52.		11

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73	Basics of Ubiquitous Networking. , 2010, , 156-170.		0
74	Recognizing RFID as a Disruptive Technology. International Journal of Information Systems and Supply Chain Management, 2009, 2, 55-68.	0.6	7
75	Policy-Based Network Management as a Platform for the Pricing of Ubiquitous Network Services. , 2008, , .		2
76	Effects of the RFID Mandate on Supply Chain Management. Journal of Theoretical and Applied Electronic Commerce Research, 2008, 3, 81-91.	3.1	35
77	Network Quality of Service for Enterprise Resource Planning Systems. Advances in Distance Education Technologies, 2007, , 68-103.	0.0	0
78	Architecture and implementation of an agent-based simulation tool for market-based pricing in next-generation wireless networks. , 2006, , .		3
79	An Exploratory Study of Killer Applications and Critical Success Factors in M-Commerce. Journal of Electronic Commerce in Organizations, 2006, 4, 63-79.	0.6	62
80	An Investigation of Revenue Streams on New Zealand Online Content Providers. Advances in Global Information Management, 2006, , 226-239.	0.0	1
81	A framework for effective quality of service over wireless networks. International Journal of Mobile Communications, 2005, 3, 138.	0.2	18
82	A Framework for the Provision of Network Quality of Service for Enterprise Resource Planning Systems. International Journal of Business Data Communications and Networking, 2005, 1, 13-36.	1.2	0
83	Quality of Service Issues Associated with Internet Protocols. , 2005, , 869-874.		0
84	An Investigation of Revenue Streams of New Zealand Online Content Providers. Journal of Global Information Management, 2004, 12, 75-88.	1.4	11
85	An Integrated Network Management Framework Using CORBA, Mobile Agents and Web-Based Technologies. , 2003, , 298-309.		1
86	Balancing Theoretical and Practical Goals in the Delivery of a University-Level Data Communications Program. Cases on Information Technology Series, 2003, , 290-301.	0.0	1
87	A Framework and Lightweight Protocol for Multimedia Network Management. Journal of Network and Systems Management, 2000, 8, 33-48.	3.3	4
88	Securing the Internet in New Zealand. , 2000, , 24-37.		0
89	A connectionless approach to integrated network management. International Journal of Network Management, 1998, 8, 219-226.	1.4	3
90	A trade-off analysis model: towards improving polling efficiency for network monitoring. , 0, , .		1

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91	Evolution of Broadband Communication Networks: Architecture and Applications. , 0, , .		0
92	RFID Technology Adoption in New Zealandâ€™ s Supply Chains: A Case Study Approach. Pacific Asia Journal of the Association for Information Systems, 0, , 43-66.	0.3	5
93	Viable Business Models for M-Commerce. , 0, , 837-852.		0
94	Basics of Ubiquitous Networking. , 0, , 222-236.		0