Jairo Gutierrez

List of Publications by Year
in descending order

94	1,422	623734	414414
papers	**citations**	14	32
		h-index	**g-index**

100	100	100	1555
all docs	**docs citations**	**times ranked**	**citing authors**

#	ARTICLE	IF	CITATIONS
1	Secure routing for internet of things: A survey. Journal of Network and Computer Applications, 2016, 66, 198-213.	9.1	228
2	SecTrust-RPL: A secure trust-aware RPL routing protocol for Internet of Things. Future Generation Computer Systems, 2019, 93, 860-876.	7.5	197
3	Bringing 5G into Rural and Low-Income Areas: Is It Feasible?. IEEE Communications Standards Magazine, 2017, 1, 50-57.	4.9	90
4	Vehicle-to-infrastructure communication over multi-tier heterogeneous networks: A survey. Computer Networks, 2017, 112, 144-166.	5.1	71
5	An Exploratory Study of Killer Applications and Critical Success Factors in M-Commerce. Journal of Electronic Commerce in Organizations, 2006, 4, 63-79.	1.1	62
6	ISeeU: Visually interpretable deep learning for mortality prediction inside the ICU. Journal of Biomedical Informatics, 2019, 98, 103269.	4.3	54
7	An evaluation framework for viable business models for m-commerce in the information technology sector. Electronic Markets, 2010, 20, 33-52.	8.1	53
8	Securing RPL routing protocol from blackhole attacks using a trust-based mechanism. , 2016, , .		49
9	A study of IoT-based post-disaster management. , 2017, , .		42
10	UAV-assisted edge infrastructure for challenged networks. , 2017, , .		35
11	Effects of the RFID Mandate on Supply Chain Management. Journal of Theoretical and Applied Electronic Commerce Research, 2008, 3, 81-91.	5.7	35
12	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.	5.8	33
13	5G in rural and low-income areas: Are we ready?. , 2016, , .		28
14	A Trust-Aware RPL Routing Protocol to Detect Blackhole and Selective Forwarding Attacks. Journal of Telecommunications and the Digital Economy, 2017, 5, 50-69.	0.6	28
15	A Lightweight Trust Design for IoT Routing. , 2016, , .		27
16	In silico drug repurposing for the identification of potential candidate molecules against arboviruses infection. Antiviral Research, 2020, 173, 104668.	4.1	19
17	Security in Low Powered Wide Area Networks: Opportunities for Software Defined Network-Supported Solutions. Electronics (Switzerland), 2020, 9, 1195.	3.1	19
18	A framework for effective quality of service over wireless networks. International Journal of Mobile Communications, 2005, 3, 138.	0.3	18

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19	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.	14.0	18
20	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
21	Comparison-based system-level fault diagnosis protocols for mobile ad-hoc networks: A survey. Journal of Network and Computer Applications, 2016, 60, 68-81.	9.1	13
22	A Cyber Physical Buses-and-Drones Mobile Edge Infrastructure for Large Scale Disaster Emergency Communications. , 2017, , .		13
23	GradeTrust: A secure trust based routing protocol for MANETs. , 2015, , .		12
24	An Investigation of Revenue Streams of New Zealand Online Content Providers. Journal of Global Information Management, 2004, 12, 75-88.	2.8	11
25	Technology and market conditions toward a new competitive landscape in the wireless access market. , 2010, 48, 46-52.		11
26	A testbed implementation of a trust-aware RPL routing protocol. , 2017, , .		11
27	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.	1.5	11
28	Toward trust based protocols in a pervasive and mobile computing environment: A survey. Ad Hoc Networks, 2018, 81, 143-159.	5.5	11
29	Machine Learning Models for Early Dengue Severity Prediction. Lecture Notes in Computer Science, 2016, , 247-258.	1.3	10
30	A Neural Network-Based Sustainable Data Dissemination through Public Transportation for Smart Cities. Sustainability, 2020, 12, 10327.	3.2	10
31	Optimal pricing strategy for 5G in rural areas with unmanned aerial vehicles and large cells. , 2017, , .		9
32	Bridging the digital divide in Tonga through a sustainable multi-tenancy broadband infrastructure: Are we ready?. , 2018, , .		9
33	Early Detection of Prediabetes and T2DM Using Wearable Sensors and Internet-of-Things-Based Monitoring Applications. Applied Clinical Informatics, 2021, 12, 001-009.	1.7	9
34	Multi-Attribute Decision Making for Energy-Efficient Public Transport Network Selection in Smart Cities. Future Internet, 2022, 14, 42.	3.8	9
35	A User Profile-Aware Policy-Based Management Framework for Greening the Cloud. , 2014, , .		8
36	A Dynamic Algorithm for Interference Management in D2D-Enabled Heterogeneous Cellular Networks: Modeling and Analysis. Sensors, 2022, 22, 1063.	3.8	8

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37	Lifetime-Aware ISP Networks: Optimal Formulation and Solutions. IEEE/ACM Transactions on Networking, 2017, 25, 1924-1937.	3.8	7
38	Connecting the unconnected 10% of New Zealanders by 2025: Is a MahiTahi approach possible?. , 2017, , .		7
39	Clinical Decision Support for Early Detection of Prediabetes and Type 2 Diabetes Mellitus Using Wearable Technology. , 2018, 2018, 4456-4459.		7
40	DATM: a dynamic attribute trust model for efficient collaborative routing. Annals of Operations Research, 2019, 277, 293-310.	4.1	7
41	A Trust-Aware RPL Routing Protocol to Detect Blackhole and Selective Forwarding Attacks. Journal of Telecommunications and the Digital Economy, 2017, 5, 50.	0.6	7
42	Recognizing RFID as a Disruptive Technology. International Journal of Information Systems and Supply Chain Management, 2009, 2, 55-68.	0.9	7
43	ISeeU2: Visually interpretable mortality prediction inside the ICU using deep learning and free-text medical notes. Expert Systems With Applications, 2022, 202, 117190.	7.6	7
44	A crowd sourced framework for neighbour assisted medical emergency system. , 2017, , .		6
45	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.	9.1	5
46	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.	0.7	5
47	A Framework and Lightweight Protocol for Multimedia Network Management. Journal of Network and Systems Management, 2000, 8, 33-48.	4.9	4
48	A Reliability-Based Trust Model for Efficient Collaborative Routing in Wireless Networks. , 2016, , .		4
49	A Mode Selection Algorithm for Mitigating Interference in D2D Enabled Next-Generation Heterogeneous Cellular Networks. , 2019, , .		4
50	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.	0.3	4
51	A connectionless approach to integrated network management. International Journal of Network Management, 1998, 8, 219-226.	2.2	3
52	Architecture and implementation of an agent-based simulation tool for market-based pricing in next-generation wireless networks. , 2006, , .		3
53	EESManager: Making greener cloud apps. , 2013, , .		3
54	A Time-Free Comparison-Based System-Level Fault Diagnostic Model for Highly Dynamic Networks. , 2016, , .		3

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55	Big Data Offloading using Smart Public Vehicles with Software Defined Connectivity. , 2019, , .		3
56	A probabilistic comparison-based fault diagnosis for hybrid faults in mobile networks. Computer Communications, 2020, 156, 131-144.	5.1	3
57	Policy-Based Network Management as a Platform for the Pricing of Ubiquitous Network Services. , 2008, , .		2
58	When Internet Raised to the Things Power: Are Energy Efficiency Standards Sufficient to Curb Carbon Footprints?. , 2015, , .		2
59	Sustainable massive data dissemination by using software defined connectivity approach. , 2017, , .		2
60	Telco asks transp: Can you give me a ride in the era of big data?. , 2017, , .		2
61	More Than Old Wine in New Bottles: A Secure Live Virtual Machine Job Migration Framework for Cloud Systems Integrity. , 2018, , .		2
62	Differential Diagnosis of Dengue and Chikungunya in Colombian Children Using Machine Learning. Lecture Notes in Computer Science, 2018, , 181-192.	1.3	2
63	Trust-Based Analytical Models for Secure Wireless Sensor Networks. Advances in Information Security, Privacy, and Ethics Book Series, 2018, , 47-65.	0.5	2
64	Adoption of RFID in Supply Chains. , 2011, , 54-63.		2
65	LPWAN Key Exchange: A Centralised Lightweight Approach. Sensors, 2022, 22, 5065.	3.8	2
66	A trade-off analysis model: towards improving polling efficiency for network monitoring. , 0, , .		1
67	Policy-based pricing for pervasive services in future heterogeneous wireless access networks. , 2014, , .		1
68	Emergency broadcast system: A reverse 911 tsunami information dissemination system prototype. , 2016, , .		1
69	Crash me if you can: Rethinking sustainable Data Center Networking from a topological perspective. , 2016, , .		1
70	An Integrated Network Management Framework Using CORBA, Mobile Agents and Web-Based Technologies. , 2003, , 298-309.		1
71	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
72	An Investigation of Revenue Streams on New Zealand Online Content Providers. Advances in Global Information Management, 2006, , 226-239.	0.0	1

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73	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.	0.7	1
74	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.	0.3	1
75	A review of New Zealand Telecommunications: Legislation, Regulations, and Recommendations. Journal of Telecommunications and the Digital Economy, 2016, 4, 172.	0.6	1
76	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.	0.6	1
77	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.	0.7	0
78	Lifetime-aware networks: It is not what you know but who you know. , 2015, , .		0
79	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
80	Evolution of Broadband Communication Networks: Architecture and Applications. , 0, , .		0
81	The Time-Free Comparison Model for Fault Diagnosis in Wireless Ad Hoc Networks. Mobile Networks and Applications, 2020, , 1.	3.3	0
82	Securing the Internet in New Zealand. , 2000, , 24-37.		0
83	Quality of Service Issues Associated with Internet Protocols. , 2005, , 869-874.		0
84	Network Quality of Service for Enterprise Resource Planning Systems. Advances in Distance Education Technologies, 2007, , 68-103.	0.0	0
85	Basics of Ubiquitous Networking. , 2010, , 156-170.		0
86	How Evolving Network Access and Network Management Technologies are Redefining the Competitive Wireless Markets. , 2013, , 220-239.		0
87	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
88	An Energy Efficient Scheduling Manager for Cloud-Based Mobile Navigation Applications. International Journal of Business Data Communications and Networking, 2014, 10, 47-68.	0.7	0
89	The Collaborative Use of Patients' Health-Related Information. Advances in Human Resources Management and Organizational Development Book Series, 2018, , 245-271.	0.3	0
90	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.	0.3	0

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91	Sustainable Crowdsensing Data Dissemination Using Public Vehicles. , 2018, , 77-110.		0
92	The Collaborative Use of Patients' Health-Related Information. , 2019, , 1713-1733.		0
93	Viable Business Models for M-Commerce. , 0, , 837-852.		0
94	Basics of Ubiquitous Networking. , 0, , 222-236.		0