

# Antonio J, Jara

## List of Publications by Year in descending order

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131  
papers

4,068  
citations

304743

22  
h-index

189892

50  
g-index

138  
all docs

138  
docs citations

138  
times ranked

4342  
citing authors

#	ARTICLE	IF	CITATIONS
1	Crowd Monitoring in Smart Destinations Based on GDPR-Ready Opportunistic RF Scanning and Classification of WiFi Devices to Identify and Classify Visitors's Origins. Electronics (Switzerland), 2022, 11, 835.	3.1	6
2	Transforming Future Cities: Smart City. Electronics (Switzerland), 2022, 11, 1534.	3.1	0
3	ALoTES: Setting the principles for semantic interoperable and modern IoT-enabled reference architecture for Active and Healthy Ageing ecosystems. Computer Communications, 2021, 177, 96-111.	5.1	8
4	Guest Editorial: Design and Analysis of Communication Interfaces for Industry 4.0. IEEE Journal on Selected Areas in Communications, 2020, 38, 797-802.	14.0	2
5	Protecting Physical Communications in 5G C-RAN Architectures through Resonant Mechanisms in Optical Media. Sensors, 2020, 20, 4104.	3.8	4
6	I-BAT. , 2020, , 630-654.		0
7	Data-Driven Automated Cardiac Health Management with Robust Edge Analytics and De-Risking. Sensors, 2019, 19, 2733.	3.8	13
8	Transforming Communication Channels to the Co-Creation and Diffusion of Intangible Heritage in Smart Tourism Destination: Creation and Testing in CeutÁ-(Spain). Sustainability, 2019, 11, 3848.	3.2	26
9	OF-ECF: A New Optimization of the Objective Function for Parent Selection in RPL. , 2019, , .		15
10	Knowledge-Driven Analytics and Systems Impacting Human Quality of Life. , 2019, , .		3
11	Smart Cities Semantics and Data Models. Advances in Intelligent Systems and Computing, 2018, , 77-85.	0.6	5
12	When smart comes to town: A mobile platform for smart district services. , 2018, , .		0
13	RPL-based networks in static and mobile environment: A performance assessment analysis. Journal of King Saud University - Computer and Information Sciences, 2018, 30, 320-333.	3.9	37
14	HyRA: A Hybrid Recommendation Algorithm Focused on Smart POI. CeutÁ-as a Study Scenario. Sensors, 2018, 18, 890.	3.8	12
15	Creating Predictive Models for Forecasting the Accident Rate in Mountain Roads Using VANETs. Advances in Intelligent Systems and Computing, 2018, , 319-329.	0.6	1
16	Process execution in humanized Cyber-physical systems: Soft processes. , 2017, , .		6
17	Semantic edge computing and IoT architecture for military health services in battlefield. , 2017, , .		32
18	IEEE Access Special Section Editorial: Smart Cities. IEEE Access, 2016, 4, 3671-3674.	4.2	3

#	ARTICLE	IF	CITATIONS
19	Emergency Population Warning about Floods by Social Media. , 2016, , .		6
20	Mobility Support for the Routing Protocol in Low Power and Lossy Networks. , 2016, , .		20
21	Editorial for Advances in Intelligent Mobile Applications Special Issue. Mobile Networks and Applications, 2016, 21, 296-298.	3.3	0
22	A Novel Distributed SDN-Secured Architecture for the IoT. , 2016, , .		17
23	The Challenges of NEMO in 6LoWPAN Smart Building Area. , 2016, , .		2
24	Enabling end-to-end CoAP-based communications for the Web of Things. Journal of Network and Computer Applications, 2016, 59, 230-236.	9.1	31
25	DCapBAC: embedding authorization logic into smart things through ECC optimizations. International Journal of Computer Mathematics, 2016, 93, 345-366.	1.8	92
26	Internet of Things and Big Data Analytics for Smart and Connected Communities. IEEE Access, 2016, 4, 766-773.	4.2	697
27	Big data: the key to energy efficiency in smart buildings. Soft Computing, 2016, 20, 1749-1762.	3.6	58
28	Internet of Things, Linked Data, and Citizen Participation as Enablers of Smarter Cities. International Journal of Distributed Sensor Networks, 2016, 12, 2595847.	2.2	2
29	I-BAT. International Journal of Data Warehousing and Mining, 2016, 12, 39-61.	0.6	4
30	Big Data and Knowledge Extraction for Cyber-Physical Systems. International Journal of Distributed Sensor Networks, 2015, 11, 231527.	2.2	6
31	Secure cloud networks for connected & automated vehicles. , 2015, , .		14
32	Big data for smart cities with KNIME a real experience in the SmartSantander testbed. Software - Practice and Experience, 2015, 45, 1145-1160.	3.6	31
33	Harvesting Entropy for Random Number Generation for Internet of Things Constrained Devices Using On-Board Sensors. Sensors, 2015, 15, 26838-26865.	3.8	9
34	Optimized ECC Implementation for Secure Communication between Heterogeneous IoT Devices. Sensors, 2015, 15, 21478-21499.	3.8	43
35	Compact Extensible Authentication Protocol for the Internet of Things: Enabling Scalable and Efficient Security Commissioning. Mobile Information Systems, 2015, 2015, 1-11.	0.6	2
36	Internet of Things for Cultural Heritage of Smart Cities and Smart Regions. , 2015, , .		48

#	ARTICLE	IF	CITATIONS
37	How to intelligently make sense of real data of smart cities. , 2015, , .		9
38	Maximizing the Extensible Authentication Protocol Maximum Transfer Unit to Minimize the Authenticating Data Transmission in the IEEE 802.15.4 Networks. , 2015, , .		1
39	Performance assessment of the routing protocol for low power and lossy networks. , 2015, , .		29
40	Secure layers based architecture for Internet of Things. , 2015, , .		13
41	Toward a Lightweight Authentication and Authorization Framework for Smart Objects. IEEE Journal on Selected Areas in Communications, 2015, 33, 690-702.	14.0	115
42	EAP for IoT: More Efficient Transport of Authentication Data – TEPANOM Case Study. , 2015, , .		5
43	Microwave energy transduction using planar technology. Electronics Letters, 2015, 51, 499-501.	1.0	4
44	Towards semantically linked multilingual corpus. International Journal of Information Management, 2015, 35, 387-395.	17.5	12
45	A Novel Privacy and Security Framework for the Cloud Network Services. , 2015, , .		2
46	Enabling federated emergencies and Public Safety Answering Points with wearable and mobile Internet of Things support: An approach based on EENA and OMA LWM2M emerging standards. , 2015, , .		1
47	Towards a Human Centric Intelligent Society: Using Cloud and the Web of Everything to Facilitate New Social Infrastructures. , 2015, , .		1
48	A predictive data-driven model for traffic-jams forecasting in smart santader city-scale testbed. , 2015, , .		7
49	Exploiting IoT-based sensed data in smart buildings to model its energy consumption. , 2015, , .		7
50	Extending the Internet of Things to the Future Internet Through IPv6 Support. Mobile Information Systems, 2014, 10, 3-17.	0.6	21
51	Lightweight MIPv6 with IPSec Support. Mobile Information Systems, 2014, 10, 37-77.	0.6	12
52	Big Data for Cyber Physical Systems: An Analysis of Challenges, Solutions and Opportunities. , 2014, , .		28
53	Extending Extensible Authentication Protocol over IEEE 802.15.4 Networks. , 2014, , .		9
54	Challenges of the Internet of Things: IPv6 and Network Management. , 2014, , .		32

#	ARTICLE	IF	CITATIONS
55	Mobility management in bluetooth low energy. , 2014, , .		0
56	Test Set Validation for Home Electrical Signal Disaggregation. , 2014, , .		2
57	Big Data in Smart Cities: From Poisson to Human Dynamics. , 2014, , .		26
58	Social Internet of Things: The Potential of the Internet of Things for Defining Human Behaviours. , 2014, , .		26
59	Wearable Internet: Powering Personal Devices with the Internet of Things Capabilities. , 2014, , .		19
60	Communication Protocol for Enabling Continuous Monitoring of Elderly People through Near Field Communications. Interacting With Computers, 2014, 26, 145-168.	1.5	21
61	Mobile digcovery: discovering and interacting with the world through the Internet of things. Personal and Ubiquitous Computing, 2014, 18, 323-338.	2.8	74
62	Drug identification and interaction checker based on IoT to minimize adverse drug reactions and improve drug compliance. Personal and Ubiquitous Computing, 2014, 18, 5-17.	2.8	50
63	Service Discovery Protocols for Constrained Machine-to-Machine Communications. IEEE Communications Surveys and Tutorials, 2014, 16, 41-60.	39.4	50
64	An extensible and active semantic model of information organizing for the Internet of Things. Personal and Ubiquitous Computing, 2014, 18, 1821-1833.	2.8	63
65	Short paper: A scripting-free control logic editor for the Internet of Things. , 2014, , .		5
66	A survey of Internet-of-Things: Future vision, architecture, challenges and services. , 2014, , .		323
67	A soft computing based location-aware access control for smart buildings. Soft Computing, 2014, 18, 1659-1674.	3.6	17
68	Participative marketing: extending social media marketing through the identification and interaction capabilities from the Internet of things. Personal and Ubiquitous Computing, 2014, 18, 997-1011.	2.8	35
69	Short paper: Sensors data fusion for Smart Cities with KNIME: A real experience in the SmartSantander Testbed. , 2014, , .		9
70	A process-based Internet of Things. , 2014, , .		4
71	Novel Adjustable Microstrip Devices for Microwave Power Division and Impedance Matching. Journal of Microwave Power and Electromagnetic Energy, 2014, 48, 13-24.	0.8	1
72	Semantic Web of Things: an analysis of the application semantics for the IoT moving towards the IoT convergence. International Journal of Web and Grid Services, 2014, 10, 244.	0.5	119

#	ARTICLE	IF	CITATIONS
73	Welcome Message from the PITSaC 2014 Workshop General Chairs. , 2014, , .		0
74	Maximizing the Extensible Authentication Protocol Maximum Transfer Unit to Minimize the Authenticating Data Transmission in the IEEE 802.15.4 Networks. , 2014, , .		0
75	Trust Extension Protocol for Authentication in Networks Oriented to Management (TEPANOM). Lecture Notes in Computer Science, 2014, , 155-165.	1.3	4
76	A NEMO-HWSN solution to support 6LoWPAN network mobility in hospital wireless sensor network. Computer Science and Information Systems, 2014, 11, 943-960.	1.0	4
77	Ambient Assisted Living Tools for a Sustainable Aging Society. Modeling and Optimization in Science and Technologies, 2014, , 193-220.	0.7	5
78	Secure and scalable mobility management scheme for the Internet of Things integration in the future internet architecture. International Journal of Ad Hoc and Ubiquitous Computing, 2013, 13, 228.	0.5	18
79	Mobile Digcovery: A Global Service Discovery for the Internet of Things. , 2013, , .		25
80	Survey of Internet of Things Technologies for Clinical Environments. , 2013, , .		57
81	A Global Perspective of Smart Cities: A Survey. , 2013, , .		136
82	Smart Lighting Solutions for Smart Cities. , 2013, , .		111
83	Enabling Participative Marketing through the Internet of Things. , 2013, , .		5
84	Interconnection Framework for mHealth and Remote Monitoring Based on the Internet of Things. IEEE Journal on Selected Areas in Communications, 2013, 31, 47-65.	14.0	232
85	A Network Mobility Solution Based on 6LoWPAN Hospital Wireless Sensor Network (NEMO-HWSN). , 2013, , .		48
86	Determining Human Dynamics through the Internet of Things. , 2013, , .		10
87	Shifting primes: Optimizing elliptic curve cryptography for 16-bit devices without hardware multiplier. Mathematical and Computer Modelling, 2013, 58, 1155-1174.	2.0	15
88	Lightweight Mobile IPv6: A mobility protocol for enabling transparent IPv6 mobility in the Internet of Things. , 2013, , .		5
89	Evaluation Framework for IEEE 802.15.4 and IEEE 802.11 for Smart Cities. , 2013, , .		4
90	IPv6 Addressing Proxy: Mapping Native Addressing from Legacy Technologies and Devices to the Internet of Things (IPv6). Sensors, 2013, 13, 6687-6712.	3.8	27

#	ARTICLE	IF	CITATIONS
91	Evolution Towards Better AAL Environments. , 2013, , .		2
92	Welcome Message from the PITSaC 2013 Workshop Co-Chairs. , 2013, , .		0
93	Shifting Primes on OpenRISC Processors with Hardware Multiplier. Lecture Notes in Computer Science, 2013, , 540-549.	1.3	1
94	IoT6 “ Moving to an IPv6-Based Future IoT. Lecture Notes in Computer Science, 2013, , 161-172.	1.3	39
95	Architecture for Improving Terrestrial Logistics Based on the Web of Things. Sensors, 2012, 12, 6538-6575.	3.8	19
96	Evaluation of the Impact of Furniture on Communications Performance for Ubiquitous Deployment of Wireless Sensor Networks in Smart Homes. Sensors, 2012, 12, 6463-6496.	3.8	14
97	Evaluation of Bluetooth Low Energy Capabilities for Continuous Data Transmission from a Wearable Electrocardiogram. , 2012, , .		18
98	Marketing 4.0: A New Value Added to the Marketing through the Internet of Things. , 2012, , .		25
99	Shifting Primes: Optimizing Elliptic Curve Cryptography for Smart Things. , 2012, , .		7
100	Interaction of Patients with Breathing Problems through NFC in Ambient Assisted Living Environments. , 2012, , .		7
101	Light-Weight Multicast DNS and DNS-SD (ImDNS-SD): IPv6-Based Resource and Service Discovery for the Web of Things. , 2012, , .		37
102	Efficiently Observing Internet of Things Resources. , 2012, , .		6
103	Web of Things as a Product Improvement tool: Furniture as Case Study. , 2012, , .		3
104	Welcome Message from the esIoT-2012 General Chairs. , 2012, , .		0
105	Knowledge Acquisition and Management Architecture for Mobile and Personal Health Environments Based on the Internet of Things. , 2012, , .		40
106	Home Telehealth Interventions for People with Asthma. , 2012, , .		0
107	An Analysis of M2M Platforms: Challenges and Opportunities for the Internet of Things. , 2012, , .		30
108	Global IP: An Adaptive and Transparent IPv6 Integration in the Internet of Things. Mobile Information Systems, 2012, 8, 177-197.	0.6	55

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109	Telematic platform for integral management of agricultural/perishable goods in terrestrial logistics. Computers and Electronics in Agriculture, 2012, 80, 31-40.	7.7	33
110	Extending Near Field Communications to Enable Continuous Data Transmission in Clinical Environments. Lecture Notes in Computer Science, 2012, , 109-116.	1.3	1
111	YOAPY: A Data Aggregation and Pre-processing Module for Enabling Continuous Healthcare Monitoring in the Internet of Things. Lecture Notes in Computer Science, 2012, , 248-255.	1.3	5
112	GAIA Extended Research Infrastructure: Sensing, Connecting, and Processing the Real World. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 3-4.	0.3	3
113	Intelligent System to Quality Assurance in Drugs Delivery. , 2012, , 187-202.		0
114	Evaluation of the electromagnetic absorption in furniture for the integration of UHF-RFID tags. , 2011, , .		0
115	Secure Mobility Management Scheme for 6LoWPAN ID/Locator Split Architecture. , 2011, , .		1
116	Oxygen Cylinders Management Architecture Based on Internet of Things. , 2011, , .		2
117	Mobility Modeling and Security Validation of a Mobility Management Scheme Based on ECC for IP-based Wireless Sensor Networks (6LoWPAN). , 2011, , .		5
118	Mobile IP-Based Protocol for Wireless Personal Area Networks in Critical Environments. Wireless Personal Communications, 2011, 61, 711-737.	2.7	24
119	An internet of thingsâ€based personal device for diabetes therapy management in ambient assisted living (AAL). Personal and Ubiquitous Computing, 2011, 15, 431-440.	2.8	239
120	An Ambient Assisted Living Platform to Integrate Biometric Sensors to Detect Respiratory Failures for Patients with Serious Breathing Problems. Lecture Notes in Computer Science, 2011, , 122-130.	1.3	3
121	Analysis of the Future Internet of Things Capabilities for Continuous Temperature Monitoring of Blood Bags in Terrestrial Logistic Systems. Lecture Notes in Computer Science, 2011, , 558-566.	1.3	5
122	Real-Time Monitoring System for Watercourse Improvement and Flood Forecast. Communications in Computer and Information Science, 2011, , 311-319.	0.5	3
123	Analysis of different techniques to define metadata structure in NFC/RFID cards to reduce access latency, optimize capacity, and guarantee integrity. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 192-197.	0.4	6
124	Drugs interaction checker based on IoT. , 2010, , .		48
125	Intra-mobility for Hospital Wireless Sensor Networks Based on 6LoWPAN. , 2010, , .		18
126	An Architecture Based on Internet of Things to Support Mobility and Security in Medical Environments. , 2010, , .		52

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127	A Pharmaceutical Intelligent Information System to detect allergies and Adverse Drugs Reactions based on internet of things. , 2010, , .		41
128	An ontology and rule based intelligent information system to detect and predict myocardial diseases. , 2009, , .		22
129	An Ambient Assisted Living System for Telemedicine with Detection of Symptoms. Lecture Notes in Computer Science, 2009, , 75-84.	1.3	13
130	HWSN6: Hospital Wireless Sensor Networks Based on 6LoWPAN Technology: Mobility and Fault Tolerance Management. , 2009, , .		42
131	An Architecture for Ambient Assisted Living and Health Environments. Lecture Notes in Computer Science, 2009, , 882-889.	1.3	13