Antonio F Skarmeta

List of Publications by Year
in descending order

293 papers	**6,393** citations	109321 **35** h-index
297 all docs	**297** docs citations	**297** times ranked

106344 **65** g-index

5859 citing authors

#	Article	IF	Citations
1	Smart farming IoT platform based on edge and cloud computing. Biosystems Engineering, 2019, 177, 4-17.	4.3	290
2	An internet of things–based personal device for diabetes therapy management in ambient assisted living (AAL). Personal and Ubiquitous Computing, 2011, 15, 431-440.	2.8	239
3	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
4	Privacy-Preserving Solutions for Blockchain: Review and Challenges. IEEE Access, 2019, 7, 164908-164940.	4.2	211
5	Performance Evaluation of LoRa Considering Scenario Conditions. Sensors, 2018, 18, 772.	3.8	195
6	TinyML-Enabled Frugal Smart Objects: Challenges and Opportunities. IEEE Circuits and Systems Magazine, 2020, 20, 4-18.	2.3	167
7	An open IoT platform for the management and analysis of energy data. Future Generation Computer Systems, 2019, 92, 1066-1079.	7.5	122
8	Applicability of Big Data Techniques to Smart Cities Deployments. IEEE Transactions on Industrial Informatics, 2017, 13, 800-809.	11.3	121
9	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
10	TACIoT: multidimensional trust-aware access control system for the Internet of Things. Soft Computing, 2016, 20, 1763-1779.	3.6	117
11	Toward a Lightweight Authentication and Authorization Framework for Smart Objects. IEEE Journal on Selected Areas in Communications, 2015, 33, 690-702.	14.0	115
12	A Machine Learning Security Framework for Iot Systems. IEEE Access, 2020, 8, 114066-114077.	4.2	111
13	How can We Tackle Energy Efficiency in IoT BasedSmart Buildings?. Sensors, 2014, 14, 9582-9614.	3.8	103
14	DCapBAC: embedding authorization logic into smart things through ECC optimizations. International Journal of Computer Mathematics, 2016, 93, 345-366.	1.8	92
15	A decentralized approach for security and privacy challenges in the Internet of Things. , 2014, , .		86
16	Security Management Architecture for NFV/SDN-Aware IoT Systems. IEEE Internet of Things Journal, 2019, 6, 8005-8020.	8.7	79
17	Mobile digcovery: discovering and interacting with the world through the Internet of things. Personal and Ubiquitous Computing, 2014, 18, 323-338.	2.8	74
18	Experimental evaluation of CAM and DENM messaging services in vehicular communications. Transportation Research Part C: Emerging Technologies, 2014, 46, 98-120.	7.6	71

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19	Virtual IoT HoneyNets to Mitigate Cyberattacks in SDN/NFV-Enabled IoT Networks. IEEE Journal on Selected Areas in Communications, 2020, 38, 1262-1277.	14.0	70
20	User‐centric smart buildings for energy sustainable smart cities. Transactions on Emerging Telecommunications Technologies, 2014, 25, 41-55.	3.9	67
21	SAFIR: Secure access framework for IoT-enabled services on smart buildings. Journal of Computer and System Sciences, 2015, 81, 1452-1463.	1.2	65
22	Big data: the key to energy efficiency in smart buildings. Soft Computing, 2016, 20, 1749-1762.	3.6	58
23	Risk-based automated assessment and testing for the cybersecurity certification and labelling of IoT devices. Computer Standards and Interfaces, 2019, 62, 64-83.	5.4	58
24	A hybrid neuro-fuzzy inference system-based algorithm for time series forecasting applied to energy consumption prediction. Applied Energy, 2020, 268, 114977.	10.1	58
25	Survey of Internet of Things Technologies for Clinical Environments. , 2013, , .		57
26	An indoor localization system based on artificial neural networks and particle filters applied to intelligent buildings. Neurocomputing, 2013, 122, 116-125.	5.9	57
27	Enhancing LoRaWAN Security through a Lightweight and Authenticated Key Management Approach. Sensors, 2018, 18, 1833.	3.8	57
28	Glowbal IP: An Adaptive and Transparent IPv6 Integration in the Internet of Things. Mobile Information Systems, 2012, 8, 177-197.	0.6	55
29	Evaluating Federated Learning for intrusion detection in Internet of Things: Review and challenges. Computer Networks, 2022, 203, 108661.	5.1	51
30	A Real-Time Measurement System for Long-Life Flood Monitoring and Warning Applications. Sensors, 2012, 12, 4213-4236.	3.8	50
31	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
32	Providing Personalized Energy Management and Awareness Services for Energy Efficiency in Smart Buildings. Sensors, 2017, 17, 2054.	3.8	49
33	An analysis of communication and navigation issues in collision avoidance support systems. Transportation Research Part C: Emerging Technologies, 2010, 18, 351-366.	7.6	48
34	A Low-Cost Indoor Localization System for Energy Sustainability in Smart Buildings. IEEE Sensors Journal, 2016, 16, 3246-3262.	4.7	46
35	Tracking and Monitoring System Based on LoRa Technology for Lightweight Boats. Electronics (Switzerland), 2019, 8, 15.	3.1	45
36	IoT6 â€" Moving to an IPv6-Based Future IoT. Lecture Notes in Computer Science, 2013, , 161-172.	1.3	39

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37	Light-Weight Multicast DNS and DNS-SD (lmDNS-SD): IPv6-Based Resource and Service Discovery for the Web of Things. , 2012, , .		37
38	ECOSPACE -- Towards an Integrated Collaboration Space for eProfessionals. , 2006, , .		36
39	TACS, a Trust Model for P2P Networks. Wireless Personal Communications, 2009, 51, 153-164.	2.7	36
40	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
41	SMARTIE project: Secure IoT data management for smart cities. , 2015, , .		34
42	Enhancing IoT security through network softwarization and virtual security appliances. International Journal of Network Management, 2018, 28, e2038.	2.2	34
43	A Survey of Cybersecurity Certification for the Internet of Things. ACM Computing Surveys, 2021, 53, 1-36.	23.0	34
44	Telematic platform for integral management of agricultural/perishable goods in terrestrial logistics. Computers and Electronics in Agriculture, 2012, 80, 31-40.	7.7	33
45	PANATIKI: A Network Access Control Implementation Based on PANA for IoT Devices. Sensors, 2013, 13, 14888-14917.	3.8	33
46	Towards Energy Efficiency Smart Buildings Models Based on Intelligent Data Analytics. Procedia Computer Science, 2016, 83, 994-999.	2.0	33
47	Holistic Privacy-Preserving Identity Management System for the Internet of Things. Mobile Information Systems, 2017, 2017, 1-20.	0.6	33
48	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
49	5G NB-IoT: Efficient Network Traffic Filtering for Multitenant IoT Cellular Networks. Security and Communication Networks, 2018, 2018, 1-21.	1.5	31
50	Enabling Virtual AAA Management in SDN-Based IoT Networks â€. Sensors, 2019, 19, 295.	3.8	31
51	Toward a Cybersecurity Certification Framework for the Internet of Things. IEEE Security and Privacy, 2019, 17, 66-76.	1.2	31
52	Distributed real-time SlowDoS attacks detection over encrypted traffic using Artificial Intelligence. Journal of Network and Computer Applications, 2021, 173, 102871.	9.1	31
53	Machine learning-based zero-touch network and service management: a survey. Digital Communications and Networks, 2022, 8, 105-123.	5.0	31
54	An Analysis of M2M Platforms: Challenges and Opportunities for the Internet of Things. , 2012, , .		30

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55	Enabling Roaming Across Heterogeneous IoT Wireless Networks: LoRaWAN MEETS 5G. IEEE Access, 2020, 8, 103164-103180.	4.2	30
56	Digital Transformation of Agriculture through the Use of an Interoperable Platform. Sensors, 2020, 20, 1153.	3.8	30
57	Impact of SCHC Compression and Fragmentation in LPWAN: A Case Study with LoRaWAN. Sensors, 2020, 20, 280.	3.8	30
58	Semantic-aware multi-tenancy authorization system for cloud architectures. Future Generation Computer Systems, 2014, 32, 154-167.	7.5	28
59	Evolving IoT networks by the confluence of MEC and LP-WAN paradigms. Future Generation Computer Systems, 2018, 88, 199-208.	7.5	28
60	RepCIDN: A Reputation-based Collaborative Intrusion Detection Network to Lessen the Impact of Malicious Alarms. Journal of Network and Systems Management, 2013, 21, 128-167.	4.9	27
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62	A complex event processing approach to perceive the vehicular context. Information Fusion, 2015, 21, 187-209.	19.1	27
63	LPWAN-Based Vehicular Monitoring Platform with a Generic IP Network Interface. Sensors, 2019, 19, 264.	3.8	27
64	Application Layer Key Establishment for End-to-End Security in IoT. IEEE Internet of Things Journal, 2020, 7, 2117-2128.	8.7	27
65	CIoTVID: Towards an Open IoT-Platform for Infective Pandemic Diseases such as COVID-19. Sensors, 2021, 21, 484.	3.8	27
66	PKI-based trust management in inter-domain scenarios. Computers and Security, 2010, 29, 278-290.	6.0	26
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70	Mobile IP-Based Protocol for Wireless Personal Area Networks in Critical Environments. Wireless Personal Communications, 2011, 61, 711-737.	2.7	24
71	MagicFinger: 3D Magnetic Fingerprints for Indoor Location. Sensors, 2015, 15, 17168-17194.	3.8	24
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77	Teaching Advanced Concepts in Computer Networks: VNUML-UM Virtualization Tool. IEEE Transactions on Learning Technologies, 2013, 6, 85-96.	3.2	21
78	A complex event processing approach to detect abnormal behaviours in the marine environment. Information Systems Frontiers, 2016, 18, 765-780.	6.4	21
79	ANASTACIA: Advanced networked agents for security and trust assessment in CPS IoT architectures. , 2017, , .		21
80	SURROGATES: Virtual OBUs to Foster 5G Vehicular Services. Electronics (Switzerland), 2019, 8, 117.	3.1	21
81	Security Architecture for Defining and Enforcing Security Profiles in DLT/SDN-Based IoT Systems. Sensors, 2020, 20, 1882.	3.8	21
82	ARMY: architecture for a secure and privacy-aware lifecycle of smart objects in the internet of my things. , 2016, 54, 28-35.		20
83	Transmission Technologies Comparison for IoT Communications in Smart-Cities. , 2017, , .		20
84	Integration of Anonymous Credential Systems in IoT Constrained Environments. IEEE Access, 2018, 6, 4767-4778.	4.2	20
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86	Distributed Security Framework for Reliable Threat Intelligence Sharing. Security and Communication Networks, 2020, 2020, 1-15.	1.5	20
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93	Architecture for Improving Terrestrial Logistics Based on the Web of Things. Sensors, 2012, 12, 6538-6575.	3.8	19
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97	Data driven modeling for energy consumption prediction in smart buildings. , 2017, , .		19
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99	Users Supporting Multiple (Mobile) Electronic Payment Systems in Online Purchases: An Empirical Study of Their Payment Transaction Preferences. IEEE Access, 2020, 8, 735-766.	4.2	19
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106	SecRBAC: Secure data in the Clouds. IEEE Transactions on Services Computing, 2017, 10, 726-740.	4.6	18
107	Machine learning based electric load forecasting for short and long-term period. , 2018, , .		18
108	ARIES: Evaluation of a reliable and privacy-preserving European identity management framework. Future Generation Computer Systems, 2020, 102, 409-425.	7.5	18

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109	Semantic-Aware Security Orchestration in SDN/NFV-Enabled IoT Systems. Sensors, 2020, 20, 3622.	3.8	18
110	Dynamic Policy-Based Network Management for a Secure Coalition Environment. , 2006, 44, 58-64.		17
111	A soft computing based location-aware access control for smart buildings. Soft Computing, 2014, 18, 1659-1674.	3.6	17
112	An IoT based framework for user-centric smart building services. International Journal of Web and Grid Services, 2015, 11, 78.	0.5	17
113	CEP-traj: An event-based solution to process trajectory data. Information Systems, 2015, 52, 34-54.	3.6	17
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122	Enforcing Behavioral Profiles through Software-Defined Networks in the Industrial Internet of Things. Applied Sciences (Switzerland), 2019, 9, 4576.	2.5	15
123	An Interledger Blockchain Platform for Cross-Border Management of Cybersecurity Information. IEEE Internet Computing, 2020, 24, 19-29.	3.3	15
124	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
125	Using identities to achieve enhanced privacy in future content delivery networks. Computers and Electrical Engineering, 2012, 38, 346-355.	4.8	14
126	Security and Privacy in Internet of Things-Enabled Smart Cities: Challenges and Future Directions. IEEE Security and Privacy, 2021, 19, 12-23.	1.2	14

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127	Improving Energy Efficiency of Irrigation Wells by Using an IoT-Based Platform. Electronics (Switzerland), 2021, 10, 250.	3.1	14
128	DECA: A Hierarchical Framework for DECentralized Aggregation in DHTs. Lecture Notes in Computer Science, 2006, , 246-257.	1.3	14
129	Reducing Energy Consumption in the Workplace via IoT-Allowed Behavioural Change Interventions. Buildings, 2022, 12, 708.	3.1	14
130	Automatic, verifiable and optimized policy-based security enforcement for SDN-aware IoT networks. Computer Networks, 2022, 213, 109123.	5.1	14
131	Human Mobility Prediction Based on Social Media with Complex Event Processing. International Journal of Distributed Sensor Networks, 2016, 12, 5836392.	2.2	13
132	IoTCrawler: Challenges and Solutions for Searching the Internet of Things. Sensors, 2021, 21, 1559.	3.8	13
133	Enabling Wide-Area Service Oriented Architecture through the p2pWeb Model. , 2006, , .		12
134	An Indoor Localization Mechanism Based on RFID and IR Data in Ambient Intelligent Environments. , 2012, , .		12
135	Towards seamless inter-technology handovers in vehicular IPv6 communications. Computer Standards and Interfaces, 2017, 52, 85-96.	5.4	12
136	A Lightweight and Flexible Encryption Scheme to Protect Sensitive Data in Smart Building Scenarios. IEEE Access, 2018, 6, 11738-11750.	4.2	12
137	A digital envelope approach using attribute-based encryption for secure data exchange in IoT scenarios. , 2017, , .		11
138	IoTCrawler: Browsing the Internet of Things. , 2018, , .		11
139	Extending MUD Profiles Through an Automated IoT Security Testing Methodology. IEEE Access, 2019, 7, 149444-149463.	4.2	11
140	PLUG-N-HARVEST Architecture for Secure and Intelligent Management of Near-Zero Energy Buildings. Sensors, 2019, 19, 843.	3.8	11
141	Classification of spatio-temporal trajectories from Volunteer Geographic Information through fuzzy rules. Applied Soft Computing Journal, 2020, 86, 105916.	7.2	11
142	Enhancing Extensive and Remote LoRa Deployments through MEC-Powered Drone Gateways. Sensors, 2020, 20, 4109.	3.8	11
143	A fuzzy language. Fuzzy Sets and Systems, 2004, 141, 335-390.	2.7	10
144	A Kerberized Architecture for Fast Re-authentication in Heterogeneous Wireless Networks. Mobile Networks and Applications, 2010, 15, 392-412.	3.3	10

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146	Trustworthy placements: Improving quality and resilience in collaborative attack detection. Computer Networks, 2014, 58, 70-86.	5.1	10
147	Context sensitive indoor temperature forecast for energy efficient operation of smart buildings. , 2015, , .		10
148	Intercloud Trust and Security Decision Support System: an Ontology-based Approach. Journal of Grid Computing, 2015, 13, 425-456.	3.9	10
149	A user-centric Internet of Things platform to empower users for managing security and privacy concerns in the Internet of Energy. International Journal of Distributed Sensor Networks, 2017, 13, 155014771772797.	2.2	10
150	IPv6 communications over LoRa for future IoV services. , 2018, , .		10
151	Protecting personal data in IoT platform scenarios through encryption-based selective disclosure. Computer Communications, 2018, 130, 20-37.	5.1	10
152	A Trusted Approach for Decentralised and Privacy-Preserving Identity Management. IEEE Access, 2021, 9, 105788-105804.	4.2	10
153	Analysis of Handover Key Management schemes under IETF perspective. Computer Standards and Interfaces, 2010, 32, 266-273.	5.4	9
154	How to intelligently make sense of real data of smart cities. , 2015, , .		9
155	Towards privacy preserving data provenance for the Internet of Things. , 2018, , .		9
156	Towards an Ontology for IoT Context-Based Security Evaluation. , 2019, , .		9
157	Architecture of security association establishment based on bootstrapping technologies for enabling secure IoT infrastructures. Future Generation Computer Systems, 2019, 95, 570-585.	7.5	9
158	MEC-Assisted End-to-End 5G-Slicing for IoT. , 2019, , .		9
159	The OLYMPUS Architecture—Oblivious Identity Management for Private User-Friendly Services. Sensors, 2020, 20, 945.	3.8	9
160	QoS and Resource-Aware Security Orchestration and Life Cycle Management. IEEE Transactions on Mobile Computing, 2022, 21, 2978-2993.	5.8	9
161	Monitoring System for the Management of the Common Agricultural Policy Using Machine Learning and Remote Sensing. Electronics (Switzerland), 2022, 11, 325.	3.1	9
162	Towards semantic web-based management of security services. Annales Des Telecommunications/Annals of Telecommunications, 2008, 63, 183-193.	2.5	8

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165	Building a reputation-based bootstrapping mechanism for newcomers in collaborative alert systems. Journal of Computer and System Sciences, 2014, 80, 571-590.	1.2	8
166	Managing Context Information for Adaptive Security in IoT Environments. , 2015, , .		8
167	A vehicular network mobility framework: Architecture, deployment and evaluation. , 2015, , .		8
168	An overview on delegated authorization for CoAP: Authentication and authorization for Constrained Environments (ACE). , 2016, , .		8
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170	A Transfer Learning Framework for Predictive Energy-Related Scenarios in Smart Buildings. IEEE Transactions on Industry Applications, 2023, 59, 26-37.	4.9	8
171	Shifting Primes: Optimizing Elliptic Curve Cryptography for Smart Things. , 2012, , .		7
172	An indoor localization system based on 3D magnetic fingerprints for smart buildings. , 2015, , .		7
173	Dynamic security credentials PANA-based provisioning for IoT smart objects. , 2015, , .		7
174	Exploiting IoT-based sensed data in smart buildings to model its energy consumption. , 2015, , .		7
175	Fuzzy Modelling for Human Dynamics Based on Online Social Networks. Sensors, 2017, 17, 1949.	3.8	7
176	Offloading Positioning onto Network Edge. Wireless Communications and Mobile Computing, 2018, 2018, 1-13.	1.2	7
177	Managing AAA in NFV/SDN-enabled IoT scenarios. , 2018, , .		7
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179	Supporting geographical queries onto DHTs. , 2008, , .		6
180	KAMU: providing advanced user privacy in Kerberos multi-domain scenarios. International Journal of Information Security, 2013, 12, 505-525.	3.4	6

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182	A required security and privacy framework for smart objects. , 2015, , .		6
183	Integration of serious games and IoT data management platforms to motivate behavioural change for energy efficient lifestyles. , 2017, , .		6
184	Matching federation identities, the eduGAIN and STORK approach. Future Generation Computer Systems, 2018, 80, 126-138.	7.5	6
185	Climate-Aware and IoT-Enabled Selection of the Most Suitable Stone Fruit Tree Variety. Sensors, 2021, 21, 3867.	3.8	6
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188	Future Human-Centric Smart Environments. Modeling and Optimization in Science and Technologies, 2015, , 341-365.	0.7	6
189	Data Protection by Design in the Context of Smart Cities: A Consent and Access Control Proposal. Sensors, 2021, 21, 7154.	3.8	6
190	Integration and Verification of PLUG-N-HARVEST ICT Platform for Intelligent Management of Buildings. Energies, 2022, 15, 2610.	3.1	6
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194	Lightweight Mobile IPv6: A mobility protocol for enabling transparent IPv6 mobility in the Internet of Things. , 2013, , .		5
195	A Framework for Citizen Participation in the Internet of Things. , 2014, , .		5
196	Towards Privacy-Preserving Data Sharing in Smart Environments. , 2014, , .		5
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