José-FernÃ¡n MartÃnez

List of Publications by Year
in descending order

77	1,720	331670	302126
papers	citations	21	39
		h-index	g-index

77	77	77	2285
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Integration of wearable devices in a wireless sensor network for an E-health application. IEEE Wireless Communications, 2013, 20, 38-49.	9.0	190
2	A Survey on Underwater Acoustic Sensor Network Routing Protocols. Sensors, 2016, 16, 414.	3.8	153
3	Business Models in the Smart Grid: Challenges, Opportunities and Proposals for Prosumer Profitability. Energies, 2014, 7, 6142-6171.	3.1	118
4	Context Aware Middleware Architectures: Survey and Challenges. Sensors, 2015, 15, 20570-20607.	3.8	106
5	Efficient Forest Fire Detection Index for Application in Unmanned Aerial Systems (UASs). Sensors, 2016, 16, 893.	3.8	106
6	Probability Prediction-Based Reliable and Efficient Opportunistic Routing Algorithm for VANETs. IEEE/ACM Transactions on Networking, 2018, 26, 1933-1947.	3.8	60
7	A Homomorphic-Based Multiple Data Aggregation Scheme for Smart Grid. IEEE Sensors Journal, 2019, 19, 3921-3929.	4.7	55
8	An Internet of Things Approach for Managing Smart Services Provided by Wearable Devices. International Journal of Distributed Sensor Networks, 2013, 9, 190813.	2.2	51
9	Combining Wireless Sensor Networks and Semantic Middleware for an Internet of Things-Based Sportsman/Woman Monitoring Application. Sensors, 2013, 13, 1787-1835.	3.8	49
10	An Anonymous Authentication and Key Establish Scheme for Smart Grid: FAuth. Energies, 2017, 10, 1354.	3.1	49
11	A Bilinear Map Pairing Based Authentication Scheme for Smart Grid Communications: PAuth. IEEE Access, 2019, 7, 22633-22643.	4.2	44
12	Knowledge-Aware and Service-Oriented Middleware for deploying pervasive services. Journal of Network and Computer Applications, 2012, 35, 562-576.	9.1	41
13	An Improved Otsu Threshold Segmentation Method for Underwater Simultaneous Localization and Mapping-Based Navigation. Sensors, 2016, 16, 1148.	3.8	40
14	AEKF-SLAM: A New Algorithm for Robotic Underwater Navigation. Sensors, 2017, 17, 1174.	3.8	29
15	Middleware Architectures for the Smart Grid: Survey and Challenges in the Foreseeable Future. Energies, 2013, 6, 3593-3621.	3.1	26
16	New Approaches to Exciting Exergame-Experiences for People with Motor Function Impairments. Sensors, 2017, 17, 354.	3.8	25
17	Distributed Power Control for Interference-Aware Multi-User Mobile Edge Computing: A Game Theory Approach. IEEE Access, 2018, 6, 36105-36114.	4.2	25
18	A Novel Intrusion Detection and Prevention Scheme for Network Coding-Enabled Mobile Small Cells. IEEE Transactions on Computational Social Systems, 2019, 6, 1467-1477.	4.4	25

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19	A Semantic-Middleware-Supported Receding Horizon Optimal Power Flow in Energy Grids. IEEE Transactions on Industrial Informatics, 2018, 14, 35-46.	11.3	24
20	SMArc: A Proposal for a Smart, Semantic Middleware Architecture Focused on Smart City Energy Management. International Journal of Distributed Sensor Networks, 2013, 9, 560418.	2.2	23
21	Cross-Layer and Reliable Opportunistic Routing Algorithm for Mobile Ad Hoc Networks. IEEE Sensors Journal, 2018, 18, 5595-5609.	4.7	23
22	A Novel Topology Control Approach to Maintain the Node Degree in Dynamic Wireless Sensor Networks. Sensors, 2014, 14, 4672-4688.	3.8	22
23	Aggregate Farming in the Cloud: The AFarCloud ECSEL project. Microprocessors and Microsystems, 2020, 78, 103218.	2.8	22
24	The Balanced Cross-Layer Design Routing Algorithm in Wireless Sensor Networks Using Fuzzy Logic. Sensors, 2015, 15, 19541-19559.	3.8	20
25	ResilientWireless Sensor Networks Using Topology Control: A Review. Sensors, 2015, 15, 24735-24770.	3.8	20
26	A Privacy Protection User Authentication and Key Agreement Scheme Tailored for the Internet of Things Environment: PriAuth. Wireless Communications and Mobile Computing, 2017, 2017, 1-17.	1.2	20
27	A Lightweight Privacy Protection User Authentication and Key Agreement Scheme Tailored for the Internet of Things Environment: LightPriAuth. Journal of Sensors, 2018, 2018, 1-16.	1.1	19
28	Bringing pervasive embedded networks to the service cloud: A lightweight middleware approach. Journal of Systems Architecture, 2011, 57, 916-933.	4.3	17
29	Composition and deployment of e-Health services over Wireless Sensor Networks. Mathematical and Computer Modelling, 2011, 53, 485-503.	2.0	17
30	Precise Real-Time Detection of Nonforested Areas With UAVs. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 632-644.	6.3	17
31	IDLP: An Efficient Intrusion Detection and Location-Aware Prevention Mechanism for Network Coding-Enabled Mobile Small Cells. IEEE Access, 2020, 8, 43863-43875.	4.2	17
32	A Semantic Middleware Architecture Focused on Data and Heterogeneity Management within the Smart Grid. Energies, 2014, 7, 5953-5994.	3.1	16
33	Trust and Privacy Solutions Based on Holistic Service Requirements. Sensors, 2016, 16, 16.	3.8	15
34	An Elliptic Curve-Based Scalable Data Aggregation Scheme for Smart Grid. IEEE Systems Journal, 2020, 14, 2066-2077.	4.6	15
35	Towards a Hybrid Approach to Context Reasoning for Underwater Robots. Applied Sciences (Switzerland), 2017, 7, 183.	2.5	14
36	A Privacy-Preserving Noise Addition Data Aggregation Scheme for Smart Grid. Energies, 2018, 11, 2972.	3.1	13

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37	A Study on Applicability of Distributed Energy Generation, Storage and Consumption within Small Scale Facilities. Energies, 2016, 9, 745.	3.1	12
38	A New High-Efficiency Multilevel Frequency-Modulation Different Chaos Shift Keying Communication System. IEEE Systems Journal, 2018, 12, 3334-3345.	4.6	12
39	A Dynamic Membership Group-Based Multiple-Data Aggregation Scheme for Smart Grid. IEEE Internet of Things Journal, 2021, 8, 12360-12374.	8.7	11
40	A Survey on Intermediation Architectures for Underwater Robotics. Sensors, 2016, 16, 190.	3.8	10
41	A New Fuzzy Ontology Development Methodology (FODM) Proposal. IEEE Access, 2016, 4, 7111-7124.	4.2	10
42	The Influence of Communication Range on Connectivity for Resilient Wireless Sensor Networks Using a Probabilistic Approach. International Journal of Distributed Sensor Networks, 2013, 9, 482727.	2.2	9
43	Virtualization of Event Sources in Wireless Sensor Networks for the Internet of Things. Sensors, 2014, 14, 22737-22753.	3.8	9
44	Localized and Energy-Efficient Topology Control in Wireless Sensor Networks Using Fuzzy-Logic Control Approaches. Mathematical Problems in Engineering, 2014, 2014, 1-11.	1.1	8
45	Geographical and Topology Control-Based Opportunistic Routing for Ad Hoc Networks. IEEE Sensors Journal, 2021, 21, 8691-8704.	4.7	8
46	Self-Adaptive Strategy Based on Fuzzy Control Systems for Improving Performance in Wireless Sensors Networks. Sensors, 2015, 15, 24125-24142.	3.8	7
47	A Location-aware IDPS scheme for Network Coding-enabled Mobile Small Cells. , 2019, , .		7
48	Continuous Delivery of Customized SaaS Edge Applications in Highly Distributed IoT Systems. IEEE Internet of Things Journal, 2020, 7, 10189-10199.	8.7	7
49	Intensity normalization of sidescan sonar imagery. , 2016, , .		6
50	A Lightweight Anonymous Client–Server Authentication Scheme for the Internet of Things Scenario: LAuth. Sensors, 2018, 18, 3695.	3.8	6
51	The Network-Based Candidate Forwarding Set Optimization for Opportunistic Routing. IEEE Sensors Journal, 2021, 21, 23626-23644.	4.7	6
52	SensoTrust: Trustworthy Domains in Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2015, 11, 484820.	2.2	6
53	Algorithms for the detection of first bottom returns and objects in the water column in sidescan sonar images. , 2017, , .		5
54	Cross-Layer Balanced Relay Node Selection Algorithm for Opportunistic Routing in Underwater Ad-Hoc Networks. , 2018, , .		5

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55	MetodologÃa para evaluar funciones y productos de vigilancia tecnolÃ³gica e inteligencia competitiva (VT/IC) y su implementaciÃ³n a travÃ©s de web. Profesional De La Informacion, 2016, 25, 103.	2.7	5
56	Proposal of an Automated Mission Manager for Cooperative Autonomous Underwater Vehicles. Applied Sciences (Switzerland), 2020, 10, 855.	2.5	5
57	Survey of Mission Planning and Management Architectures for Underwater Cooperative Robotics Operations. Applied Sciences (Switzerland), 2020, 10, 1086.	2.5	5
58	Pervasive surveillance-agent system based on wireless sensor networks: design and deployment. Measurement Science and Technology, 2010, 21, 124005.	2.6	4
59	Usage of VR Headsets for Rehabilitation Exergames. Lecture Notes in Computer Science, 2017, , 434-442.	1.3	4
60	Security Threats in Network Coding-Enabled Mobile Small Cells. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 337-346.	0.3	4
61	Automated determination of security services to ensure personal data protection in the Internet of Things applications. , 2013, , .		3
62	Service architecting and dynamic composition in pervasive smart ecosystems for the internet of things based on sensor network technology. Journal of Ambient Intelligence and Smart Environments, 2014, 6, 331-333.	1.4	3
63	Development of Middleware Applied to Microgrids by Means of an Open Source Enterprise Service Bus. Energies, 2017, 10, 172.	3.1	3
64	SoluciÃ³n para garantizar la privacidad en internet de las cosas. Profesional De La Informacion, 2015, 24, 62-70.	2.7	3
65	Wireless sensor networks in knowledge management. Procedia Computer Science, 2010, 1, 2291-2300.	2.0	2
66	Probability of Interference-Optimal and Energy-Efficient Analysis for Topology Control in Wireless Sensor Networks. Applied Sciences (Switzerland), 2016, 6, 396.	2.5	2
67	Uncertainty Quantification in Mathematics-Embedded Ontologies Using Stochastic Reduced Order Model. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 912-920.	5.7	2
68	Development of a Decision Making Algorithm for Traffic Jams Reduction Applied to Intelligent Transportation Systems. Journal of Sensors, 2016, 2016, 1-16.	1.1	1
69	Contribution towards intelligent service management in wearable and ubiquitous devices. Journal of Ambient Intelligence and Smart Environments, 2016, 8, 79-80.	1.4	1
70	Probability Model Based Energy Efficient and Reliable Topology Control Algorithm. Energies, 2016, 9, 841.	3.1	1
71	Fast Evaluation of Segmentation Quality with Parallel Computing. Scientific Programming, 2017, 2017, 1-9.	0.7	1
72	The AFarCloud ECSEL Project. , 2019, , .		1

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73	SECUAREA: Security in physical and logical areas. , 2007, , .		0
74	An End-to-End-Based Low Dimensional Binary Embedding for Chrysanthemum Phenotypic Petal Similarity Evaluation. IEEE Access, 2019, 7, 152214-152223.	4.2	0
75	On the Performance Analysis of IDLP and SpaceMac for Network Coding-Enabled Mobile Small Cells. IEEE Communications Letters, 2021, 25, 407-411.	4.1	0
76	Nuevas tecnologías en análisis de inteligencia competitiva. Casos prácticos. Profesional De La Informacion, 2013, 22, 448-454.	2.7	0
77	Security for UDNs: A Step Toward 6G. , 2022, , 167-201.		0