

Ramn Pablo Alcarria Garrido

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

124
papers

753
citations

12
h-index

22
g-index

149
ext. papers

903
ext. citations

1.9
avg, IF

4.79
L-index

#	Paper	IF	Citations
124	Distributed Trust and Reputation Services in Pervasive Internet-of-Things Deployments. <i>Communications in Computer and Information Science</i> , 2022 , 16-29	0.3	
123	Improving Road Surface Area Extraction via Semantic Segmentation with Conditional Generative Learning for Deep Inpainting Operations. <i>ISPRS International Journal of Geo-Information</i> , 2022 , 11, 43	2.9	2
122	Increasing the Efficiency and Workers Wellbeing in the European Bakery Industry: An Industry 4.0 Case Study. <i>Lecture Notes in Networks and Systems</i> , 2022 , 646-658	0.5	
121	Lightweight encryption for short-range wireless biometric authentication systems in Industry 4.0. <i>Integrated Computer-Aided Engineering</i> , 2022 , 29, 153-173	5.2	2
120	An Optimization Algorithm for the Efficient Distribution of Resources in 6G Verticals. <i>Lecture Notes in Networks and Systems</i> , 2022 , 103-114	0.5	
119	Prediction-Correction Techniques to Support Sensor Interoperability in Industry 4.0 Systems. <i>Sensors</i> , 2021 , 21,	3.8	2
118	Digital user-industry interactions and Industry 4.0 services to improve customers' experience and satisfaction in the European bakery sector 2021 ,		1
117	Denial of Chain: Evaluation and prediction of a novel cyberattack in Blockchain-supported systems. <i>Future Generation Computer Systems</i> , 2021 , 116, 426-439	7.5	7
116	Data Authentication and Anonymization in IoT Scenarios and Future 5G Networks Using Chaotic Digital Watermarking. <i>IEEE Access</i> , 2021 , 9, 22378-22398	3.5	11
115	First Dataset of Wind Turbine Data Created at National Level With Deep Learning Techniques From Aerial Orthophotographs With a Spatial Resolution of 0.5 M/Pixel. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021 , 14, 7968-7980	4.7	2
114	Controlling Supervised Industry 4.0 Processes through Logic Rules and Tensor Deformation Functions. <i>Informatica</i> , 2021 , 217-245	2.9	1
113	Flexible Physical Process Control Through Predictor-Corrector Differential Models in Industry 4.0 Scenarios. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 535-545	0.4	
112	Evaluation and Modeling of Microprocessors' Numerical Precision Impact on 5G Enhanced Mobile Broadband Communications. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 267-279	0.4	3
111	Recognizing human activities in Industry 4.0 scenarios through an analysis-modeling- recognition algorithm and context labels. <i>Integrated Computer-Aided Engineering</i> , 2021 , 1-21	5.2	0
110	Generative Learning for Postprocessing Semantic Segmentation Predictions: A Lightweight Conditional Generative Adversarial Network Based on Pix2pix to Improve the Extraction of Road Surface Areas. <i>Land</i> , 2021 , 10, 79	3.5	7
109	Trust-enhancing technologies: Blockchain mathematics in the context of Industry 4.0 2021 , 1-22		1
108	A Deep Learning-Based Solution for Large-Scale Extraction of the Secondary Road Network from High-Resolution Aerial Orthoimagery. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 7272	2.6	13

107	A Framework Based on Nesting of Convolutional Neural Networks to Classify Secondary Roads in High Resolution Aerial Orthoimages. <i>Remote Sensing</i> , 2020 , 12, 765	5	10
106	A Predictor-Corrector Algorithm Based on Laurent Series for Biological Signals in the Internet of Medical Things. <i>IEEE Access</i> , 2020 , 8, 109360-109371	3.5	3
105	Digital Watermarking for Enriched Video Streams in Edge Computing Architectures Using Chaotic Mixtures and Physical Unclonable Functions. <i>Communications in Computer and Information Science</i> , 2020 , 112-125	0.3	
104	Semantic Segmentation of Weeds and Crops in Multispectral Images by Using a Convolutional Neural Networks Based on U-Net. <i>Communications in Computer and Information Science</i> , 2020 , 473-485	0.3	1
103	Supervising Industrial Distributed Processes Through Soft Models, Deformation Metrics and Temporal Logic Rules. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 125-136	0.4	2
102	Managing Wireless Communications for Emergency Situations in Urban Environments through Cyber-Physical Systems and 5G Technologies. <i>Electronics (Switzerland)</i> , 2020 , 9, 1524	2.6	5
101	Optimizing the Recognition and Feature Extraction of Wind Turbines through Hybrid Semantic Segmentation Architectures. <i>Remote Sensing</i> , 2020 , 12, 3743	5	4
100	Enabling trustworthy personal data protection in eHealth and well-being services through privacy-by-design. <i>International Journal of Distributed Sensor Networks</i> , 2020 , 16, 155014772091211	1.7	10
99	Protecting Physical Communications in 5G C-RAN Architectures through Resonant Mechanisms in Optical Media. <i>Sensors</i> , 2020 , 20,	3.8	4
98	Towards Outlier Sensor Detection in Ambient Intelligent Platforms-A Low-Complexity Statistical Approach. <i>Sensors</i> , 2020 , 20,	3.8	3
97	An Inter-slice Management Solution for Future Virtualization-Based 5G Systems. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 1059-1070	0.4	2
96	Service management in virtualization-based architectures for 5G systems with network slicing. <i>Integrated Computer-Aided Engineering</i> , 2019 , 27, 77-99	5.2	8
95	Protecting Private Communications in Cyber-Physical Systems through Physical Unclonable Functions. <i>Electronics (Switzerland)</i> , 2019 , 8, 390	2.6	10
94	Enabling Efficient Communications with Resource Constrained Information Endpoints in Smart Homes. <i>Sensors</i> , 2019 , 19,	3.8	4
93	An agent-based method for trust graph calculation in resource constrained environments. <i>Integrated Computer-Aided Engineering</i> , 2019 , 27, 37-56	5.2	4
92	A Blockchain-based Water Control System for the Automatic Management of Irrigation Communities 2019 ,		8
91	An Industry 4.0 Solution for the Detection of Dangerous Situations in Civil Work Scenarios. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 494-504	0.4	1
90	A Two-Phase Algorithm for Recognizing Human Activities in the Context of Industry 4.0 and Human-Driven Processes. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 175-185	0.4	2

89	Sharing Device Resources in Heterogeneous CPS Using Unique Identifiers with Multi-site Systems Environments. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 153-164	0.4	
88	Cyber-Physical Systems for Environment and People Monitoring in Large Facilities: A Study Case in Public Health. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 406-416	0.4	1
87	Lifecycle of Geospatial Data in a High-Voltage Electrical Infrastructure Project: Geodesign Framework in the Electrical Network of Spain (REE). <i>Proceedings (mdpi)</i> , 2019 , 19, 5	0.3	
86	Designing a Volunteered Geographic Information System for Road Data Validation. <i>Proceedings (mdpi)</i> , 2019 , 19, 7	0.3	2
85	A Deep Convolutional Neural Network to Detect the Existence of Geospatial Elements in High-Resolution Aerial Imagery. <i>Proceedings (mdpi)</i> , 2019 , 19, 17	0.3	3
84	Volunteered geographic information systems: Technological design patterns. <i>Transactions in GIS</i> , 2019 , 23, 976-1007	2.1	3
83	Evaluation of Transfer Learning Techniques with Convolutional Neural Networks (CNNs) to Detect the Existence of Roads in High-Resolution Aerial Imagery. <i>Communications in Computer and Information Science</i> , 2019 , 185-198	0.3	
82	Game Theoretic Optimal User Association in Emergency Networks. <i>Lecture Notes in Computer Science</i> , 2019 , 18-31	0.9	1
81	Cyber-Physical Sensors and Devices for the Provision of Next-Generation Personalized Services. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 479-490	0.4	1
80	Automatic Detection of Erratic Sensor Observations in Ami Platforms: A Statistical Approach □ <i>Proceedings (mdpi)</i> , 2019 , 31, 55	0.3	2
79	People-as-a-Service Dilemma: Humanizing Computing Solutions in High-Efficiency Applications. <i>Proceedings (mdpi)</i> , 2019 , 31, 39	0.3	4
78	Digital Food Product Traceability: Using Blockchain in the International Commerce. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 224-231	0.4	4
77	Needs, drivers, participants and engagement actions: a framework for motivating contributions to volunteered geographic information systems. <i>Journal of Geographical Systems</i> , 2019 , 21, 5-41	1.8	7
76	Virtualization-Based Techniques for the Design, Management and Implementation of Future 5G Systems with Network Slicing. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 133-143	0.4	5
75	Analyzing UAV-Based Remote Sensing and WSN Support for Data Fusion. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 756-766	0.4	7
74	Smart Cities Semantics and Data Models. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 77-85	0.4	3
73	An Intra-Slice Security Solution for Emerging 5G Networks Based on Pseudo-Random Number Generators. <i>IEEE Access</i> , 2018 , 6, 16149-16164	3.5	18
72	Provision of next-generation personalized cyber-physical services 2018 ,		2

71	A Hardware-Supported Algorithm for Self-Managed and Choreographed Task Execution in Sensor Networks. <i>Sensors</i> , 2018 , 18,	3.8	10
70	A framework for enhancing mobile workflow execution through injection of flexible security controls. <i>Analog Integrated Circuits and Signal Processing</i> , 2018 , 96, 303-316	1.2	
69	Securing Internet-of-Things Systems Through Implicit and Explicit Reputation Models. <i>IEEE Access</i> , 2018 , 6, 47472-47488	3.5	10
68	. <i>IEEE Access</i> , 2018 , 6, 34896-34910	3.5	12
67	Creating Predictive Models for Forecasting the Accident Rate in Mountain Roads Using VANETs. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 319-329	0.4	1
66	Flexible Service Provision in Context-Aware Cyber-Physical Systems. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 873-883	0.4	
65	Low-Level Service Management in Cyber-Physical Systems. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 860-872	0.4	
64	A Methodological Approach to Using Geodesign in Transmission Line Projects. <i>Sustainability</i> , 2018 , 10, 2757	3.6	5
63	Blockchain Technologies for Private Data Management in Aml Environments. <i>Proceedings (mdpi)</i> , 2018 , 2, 1230	0.3	1
62	A Blockchain-Based Authorization System for Trustworthy Resource Monitoring and Trading in Smart Communities. <i>Sensors</i> , 2018 , 18,	3.8	36
61	Enhanced Peer Assessment in MOOC Evaluation Through Assignment and Review Analysis. <i>International Journal of Emerging Technologies in Learning</i> , 2018 , 13, 206	1.4	12
60	Fast self-configuration in service-oriented Smart Environments for real-time applications. <i>Journal of Ambient Intelligence and Smart Environments</i> , 2018 , 10, 143-167	2.2	8
59	Process execution in Cyber-Physical Systems using cloud and Cyber-Physical Internet services. <i>Journal of Supercomputing</i> , 2018 , 74, 4127-4169	2.5	20
58	Improving Learning Tasks for Mentally Handicapped People Using Aml Environments Based on Cyber-Physical Systems. <i>Mobile Information Systems</i> , 2018 , 2018, 1-12	1.4	0
57	A service-oriented monitoring system based on rule evaluation for Home Automation 2017 ,		4
56	Process execution in humanized Cyber-physical systems: Soft processes 2017 ,		5
55	Cyberphysical systems: Extending pervasive sensing from control theory to the Internet of Things. <i>Pervasive and Mobile Computing</i> , 2017 , 40, 156-184	3.5	96
54	Self-configuration in humanized Cyber-Physical Systems. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2017 , 8, 485-496	3.7	22

53	Assessment of human motivation through analysis of physiological and emotional signals in Industry 4.0 scenarios. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2017 , 1	3.7	12
52	Rule-based monitoring and coordination of resource consumption in smart communities. <i>IEEE Transactions on Consumer Electronics</i> , 2017 , 63, 191-199	4.8	6
51	A Methodology for the Design of Application-Specific Cyber-Physical Social Sensing Co-Simulators. <i>Sensors</i> , 2017 , 17,	3.8	12
50	Towards a Wireless and Low-Power Infrastructure for Representing Information Based on E-Paper Displays. <i>Sustainability</i> , 2017 , 9, 76	3.6	2
49	Detecting Malicious Components in Large-Scale Internet-of-Things Systems and Architectures. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 155-165	0.4	5
48	Improving MOOC Student Learning Through Enhanced Peer-to-Peer Tasks. <i>Lecture Notes in Computer Science</i> , 2017 , 140-149	0.9	2
47	Prosumerization Approach to Semantic Ambient Intelligence Platforms. <i>Lecture Notes in Computer Science</i> , 2017 , 109-120	0.9	2
46	Protecting Industry 4.0 Systems Against the Malicious Effects of Cyber-Physical Attacks. <i>Lecture Notes in Computer Science</i> , 2017 , 161-171	0.9	13
45	Enabling Efficient Service Distribution using Process Model Transformations. <i>International Journal of Data Warehousing and Mining</i> , 2016 , 12, 1-19	1	1
44	Prosumer Framework for Knowledge Management Based on Prosumer Service Patterns. <i>International Journal of Software Engineering and Knowledge Engineering</i> , 2016 , 26, 1145-1173	1	5
43	Message fragmentation assessment in DTN nanosatellite-based sensor networks. <i>Ad Hoc Networks</i> , 2016 , 44, 76-89	4.8	3
42	Improving Learning Tasks for Mentally Handicapped People Using Aml Environments Based on Cyber-Physical Systems. <i>Lecture Notes in Computer Science</i> , 2016 , 166-177	0.9	2
41	Volunteered Geographic Information System Design: Project and Participation Guidelines. <i>ISPRS International Journal of Geo-Information</i> , 2016 , 5, 108	2.9	14
40	Plug-and-Play Transducers in Cyber-Physical Systems for Device-Driven Applications 2016 ,		8
39	Predictive algorithms for mobility and device lifecycle management in Cyber-Physical Systems. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2016 , 2016,	3.2	7
38	An autonomous information device with e-paper display for personal environments 2016 ,		4
37	An Ambient Intelligence Framework for End-User Service Provisioning in a Hospital Pharmacy: a Case Study. <i>Journal of Medical Systems</i> , 2015 , 39, 116	5.1	12
36	Estudio del comportamiento físico de pieles utilizando técnicas de Monte Carlo. <i>Revista Internacional De Metodos Numericos Para Calculo Y Diseno En Ingenieria</i> , 2015 , 31, 161-170	1.8	

35	Supporting variability dependencies for rule-based service compositions in prosumer environments. <i>International Journal of Web and Grid Services</i> , 2015 , 11, 57	1.4	9
34	Estudio y caracterizaci3n 3ptica de un Carcinoma Basocelular mediante simulaci3n l3ber num3rica. <i>Sanidad Militar</i> , 2015 , 71, 84-90		
33	TF4SM: A Framework for Developing Traceability Solutions in Small Manufacturing Companies. <i>Sensors</i> , 2015 , 15, 29478-510	3.8	30
32	Simulation of apparent optical properties in different seawater. <i>Optical Review</i> , 2015 , 22, 497-510	0.9	
31	An Integrated Framework for Enabling End-User Configuration of Aml Simulations for Open Wide Locations. <i>Lecture Notes in Computer Science</i> , 2015 , 413-424	0.9	
30	Building Smart Adaptable Cyber-Physical Systems: Definitions, Classification and Elements. <i>Lecture Notes in Computer Science</i> , 2015 , 144-149	0.9	2
29	An Internet of Things-Based Model for Smart Water Management 2014 ,		38
28	Resolving coordination challenges in distributed mobile service executions. <i>International Journal of Web and Grid Services</i> , 2014 , 10, 168	1.4	12
27	Enhancing evacuation plans with a situation awareness system based on end-user knowledge provision. <i>Sensors</i> , 2014 , 14, 11153-78	3.8	21
26	A Mobile Crowdsourcing Platform for Urban Infrastructure Maintenance 2014 ,		4
25	Decision Making Environment Based on Prosumer Services for Tracing Drugs in a Hospital Pharmacy Department. <i>Lecture Notes in Computer Science</i> , 2014 , 324-332	0.9	1
24	End-User Service Distribution for Efficient Inter-Domain Execution. <i>Lecture Notes in Computer Science</i> , 2014 , 480-487	0.9	
23	Smart Product Management in Retail Environment Based on Dynamic Pricing and Location Services. <i>Lecture Notes in Computer Science</i> , 2014 , 171-178	0.9	
22	A Four-Leaf Clover Shape Methodology for Prosumer Service Developments. <i>Lecture Notes in Computer Science</i> , 2014 , 488-495	0.9	1
21	Smart Dynamic Pricing Based on ECA Rules and Electronic Ink Labeling for Retail. <i>Lecture Notes in Computer Science</i> , 2014 , 468-475	0.9	1
20	An Extended Topic-Based Pub/Sub Broker for Cooperative Mobile Services 2013 ,		3
19	A Systematic Approach for Service Prosumerization in IoT Scenarios 2013 ,		10
18	Future Supermarket: Overcoming Food Awareness Challenges 2013 ,		3

17	Experiences and Challenges in Deploying OpenFlow over Real Wireless Mesh Networks. <i>IEEE Latin America Transactions</i> , 2013 , 11, 955-961	0.7	12
16	On the support of scientific workflows over Pub/Sub brokers. <i>Sensors</i> , 2013 , 13, 10954-80	3.8	5
15	E-Flow: A Communication System for User Notification in Dynamic Evacuation Scenarios. <i>Lecture Notes in Computer Science</i> , 2013 , 207-214	0.9	1
14	A Variability Model for Template Personalization in Mobile Prosumer Environments 2013 ,		2
13	On the Characterization of Collaborative Mobile Services for the Internet of Things 2013 ,		2
12	A Rendezvous Mobile Broker for Pub/Sub Networks. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2013 , 16-27	0.2	2
11	A Case Study for Validating a Prosumer Framework in Drug Traceability Scenarios. <i>Lecture Notes in Computer Science</i> , 2013 , 311-318	0.9	1
10	2012 ,		2
9	Resolving Coordination Challenges in Cooperative Mobile Services 2012 ,		4
8	Experiences and challenges in deploying openflow over a real wireless mesh network 2012 ,		7
7	Enabling flexible and continuous capability invocation in mobile prosumer environments. <i>Sensors</i> , 2012 , 12, 8930-54	3.8	16
6	Web Browser HTML5 Enabled for FI Services. <i>Lecture Notes in Computer Science</i> , 2012 , 181-184	0.9	2
5	Improving Cooperativity in a Workflow Coordination Model over a Pub/Sub Network. <i>Lecture Notes in Computer Science</i> , 2012 , 216-223	0.9	
4	Communication Architecture for Tracking and Interoperable Services at Hospitals: A Real Deployment Experience. <i>Lecture Notes in Computer Science</i> , 2011 , 84-91	0.9	1
3	Towards the Convergence between IMS and Social Networks 2010 ,		2
2	Trust Provision in the Internet of Things using Transversal Blockchain Networks. <i>Intelligent Automation and Soft Computing</i> ,-1--1	2.6	7
1	Processing semantic IoT data using a prosumer approach for simulating scenarios on ambient intelligence environments. <i>Journal of Ambient Intelligence and Humanized Computing</i> ,1	3.7	0