

Ramn Pablo Alcarria Garrido

List of Publications by Citations

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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	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
123	An Internet of Things-Based Model for Smart Water Management 2014 ,		38
122	A Blockchain-Based Authorization System for Trustworthy Resource Monitoring and Trading in Smart Communities. <i>Sensors</i> , 2018 , 18,	3.8	36
121	TF4SM: A Framework for Developing Traceability Solutions in Small Manufacturing Companies. <i>Sensors</i> , 2015 , 15, 29478-510	3.8	30
120	Self-configuration in humanized Cyber-Physical Systems. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2017 , 8, 485-496	3.7	22
119	Enhancing evacuation plans with a situation awareness system based on end-user knowledge provision. <i>Sensors</i> , 2014 , 14, 11153-78	3.8	21
118	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
117	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
116	Enabling flexible and continuous capability invocation in mobile prosumer environments. <i>Sensors</i> , 2012 , 12, 8930-54	3.8	16
115	Volunteered Geographic Information System Design: Project and Participation Guidelines. <i>ISPRS International Journal of Geo-Information</i> , 2016 , 5, 108	2.9	14
114	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
113	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
112	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
111	. <i>IEEE Access</i> , 2018 , 6, 34896-34910	3.5	12
110	Resolving coordination challenges in distributed mobile service executions. <i>International Journal of Web and Grid Services</i> , 2014 , 10, 168	1.4	12
109	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
108	A Methodology for the Design of Application-Specific Cyber-Physical Social Sensing Co-Simulators. <i>Sensors</i> , 2017 , 17,	3.8	12

107	Experiences and Challenges in Deploying OpenFlow over Real Wireless Mesh Networks. <i>IEEE Latin America Transactions</i> , 2013 , 11, 955-961	0.7	12
106	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
105	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
104	Protecting Private Communications in Cyber-Physical Systems through Physical Unclonable Functions. <i>Electronics (Switzerland)</i> , 2019 , 8, 390	2.6	10
103	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
102	A Hardware-Supported Algorithm for Self-Managed and Choreographed Task Execution in Sensor Networks. <i>Sensors</i> , 2018 , 18,	3.8	10
101	Securing Internet-of-Things Systems Through Implicit and Explicit Reputation Models. <i>IEEE Access</i> , 2018 , 6, 47472-47488	3.5	10
100	A Systematic Approach for Service Prosumerization in IoT Scenarios 2013 ,		10
99	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
98	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
97	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
96	A Blockchain-based Water Control System for the Automatic Management of Irrigation Communities 2019 ,		8
95	Plug-and-Play Transducers in Cyber-Physical Systems for Device-Driven Applications 2016 ,		8
94	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
93	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
92	Experiences and challenges in deploying openflow over a real wireless mesh network 2012 ,		7
91	Trust Provision in the Internet of Things using Transversal Blockchain Networks. <i>Intelligent Automation and Soft Computing</i> ,-1--1	2.6	7
90	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

89	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
88	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
87	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
86	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
85	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
84	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
83	Process execution in humanized Cyber-physical systems: Soft processes 2017 ,		5
82	On the support of scientific workflows over Pub/Sub brokers. <i>Sensors</i> , 2013 , 13, 10954-80	3.8	5
81	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
80	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
79	A Methodological Approach to Using Geodesign in Transmission Line Projects. <i>Sustainability</i> , 2018 , 10, 2757	3.6	5
78	A service-oriented monitoring system based on rule evaluation for Home Automation 2017 ,		4
77	Enabling Efficient Communications with Resource Constrained Information Endpoints in Smart Homes. <i>Sensors</i> , 2019 , 19,	3.8	4
76	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
75	A Mobile Crowdsourcing Platform for Urban Infrastructure Maintenance 2014 ,		4
74	Resolving Coordination Challenges in Cooperative Mobile Services 2012 ,		4
73	Optimizing the Recognition and Feature Extraction of Wind Turbines through Hybrid Semantic Segmentation Architectures. <i>Remote Sensing</i> , 2020 , 12, 3743	5	4
72	Protecting Physical Communications in 5G C-RAN Architectures through Resonant Mechanisms in Optical Media. <i>Sensors</i> , 2020 , 20,	3.8	4

71	An autonomous information device with e-paper display for personal environments 2016,		4
70	People-as-a-Service Dilemma: Humanizing Computing Solutions in High-Efficiency Applications. <i>Proceedings (mdpi)</i> , 2019 , 31, 39	0.3	4
69	Digital Food Product Traceability: Using Blockchain in the International Commerce. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 224-231	0.4	4
68	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
67	Smart Cities Semantics and Data Models. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 77-85	0.4	3
66	Message fragmentation assessment in DTN nanosatellite-based sensor networks. <i>Ad Hoc Networks</i> , 2016 , 44, 76-89	4.8	3
65	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
64	Volunteered geographic information systems: Technological design patterns. <i>Transactions in GIS</i> , 2019 , 23, 976-1007	2.1	3
63	An Extended Topic-Based Pub/Sub Broker for Cooperative Mobile Services 2013,		3
62	Future Supermarket: Overcoming Food Awareness Challenges 2013,		3
61	Towards Outlier Sensor Detection in Ambient Intelligent Platforms-A Low-Complexity Statistical Approach. <i>Sensors</i> , 2020 , 20,	3.8	3
60	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
59	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
58	Provision of next-generation personalized cyber-physical services 2018,		2
57	Designing a Volunteered Geographic Information System for Road Data Validation. <i>Proceedings (mdpi)</i> , 2019 , 19, 7	0.3	2
56	Towards a Wireless and Low-Power Infrastructure for Representing Information Based on E-Paper Displays. <i>Sustainability</i> , 2017 , 9, 76	3.6	2
55	2012,		2
54	A Variability Model for Template Personalization in Mobile Prosumer Environments 2013,		2

53	On the Characterization of Collaborative Mobile Services for the Internet of Things 2013 ,		2
52	Towards the Convergence between IMS and Social Networks 2010 ,		2
51	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
50	Prediction-Correction Techniques to Support Sensor Interoperability in Industry 4.0 Systems. <i>Sensors</i> , 2021 , 21,	3.8	2
49	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
48	Building Smart Adaptable Cyber-Physical Systems: Definitions, Classification and Elements. <i>Lecture Notes in Computer Science</i> , 2015 , 144-149	0.9	2
47	Improving MOOC Student Learning Through Enhanced Peer-to-Peer Tasks. <i>Lecture Notes in Computer Science</i> , 2017 , 140-149	0.9	2
46	Prosumerization Approach to Semantic Ambient Intelligence Platforms. <i>Lecture Notes in Computer Science</i> , 2017 , 109-120	0.9	2
45	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
44	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
43	Web Browser HTML5 Enabled for FI Services. <i>Lecture Notes in Computer Science</i> , 2012 , 181-184	0.9	2
42	Automatic Detection of Erratic Sensor Observations in Ami Platforms: A Statistical Approach □ <i>Proceedings (mdpi)</i> , 2019 , 31, 55	0.3	2
41	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
40	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
39	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
38	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
37	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
36	Enabling Efficient Service Distribution using Process Model Transformations. <i>International Journal of Data Warehousing and Mining</i> , 2016 , 12, 1-19	1	1

35	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
34	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
33	Game Theoretic Optimal User Association in Emergency Networks. <i>Lecture Notes in Computer Science</i> , 2019 , 18-31	0.9	1
32	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
31	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
30	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
29	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
28	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
27	A Four-Leaf Clover Shape Methodology for Prosumer Service Developments. <i>Lecture Notes in Computer Science</i> , 2014 , 488-495	0.9	1
26	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
25	Digital user-industry interactions and Industry 4.0 services to improve customers' experience and satisfaction in the European bakery sector 2021 ,		1
24	Controlling Supervised Industry 4.0 Processes through Logic Rules and Tensor Deformation Functions. <i>Informatica</i> , 2021 , 217-245	2.9	1
23	Blockchain Technologies for Private Data Management in Aml Environments. <i>Proceedings (mdpi)</i> , 2018 , 2, 1230	0.3	1
22	Trust-enhancing technologies: Blockchain mathematics in the context of Industry 4.0 2021 , 1-22		1
21	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
20	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
19	Processing semantic IoT data using a prosumer approach for simulating scenarios on ambient intelligence environments. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021 , 1-12	3.7	0
18	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	

17	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
16	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
15	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
14	Estudio y caracterización física de un Carcinoma Basocelular mediante simulación térmica. <i>Sanidad Militar</i> , 2015 , 71, 84-90	
13	Simulation of apparent optical properties in different seawater. <i>Optical Review</i> , 2015 , 22, 497-510	0.9
12	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
11	Distributed Trust and Reputation Services in Pervasive Internet-of-Things Deployments. <i>Communications in Computer and Information Science</i> , 2022 , 16-29	0.3
10	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
9	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
8	Flexible Service Provision in Context-Aware Cyber-Physical Systems. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 873-883	0.4
7	Low-Level Service Management in Cyber-Physical Systems. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 860-872	0.4
6	Improving Cooperativity in a Workflow Coordination Model over a Pub/Sub Network. <i>Lecture Notes in Computer Science</i> , 2012 , 216-223	0.9
5	End-User Service Distribution for Efficient Inter-Domain Execution. <i>Lecture Notes in Computer Science</i> , 2014 , 480-487	0.9
4	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
3	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
2	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
1	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