RamÃ³n Pablo Alcarria Garrido

List of Publications by Year
in descending order

144 papers	1,117 citations	566801 15 h-index	580395 25 g-index
149 all docs	149 docs citations	149 times ranked	900 citing authors

#	Article	IF	Citations
1	Cyber–physical systems: Extending pervasive sensing from control theory to the Internet of Things. Pervasive and Mobile Computing, 2017, 40, 156-184.	2.1	121
2	A Blockchain-Based Authorization System for Trustworthy Resource Monitoring and Trading in Smart Communities. Sensors, 2018, 18, 3561.	2.1	60
3	An Internet of Things-Based Model for Smart Water Management. , 2014, , .		58
4	TF4SM: A Framework for Developing Traceability Solutions in Small Manufacturing Companies. Sensors, 2015, 15, 29478-29510.	2.1	34
5	Process execution in Cyber-Physical Systems using cloud and Cyber-Physical Internet services. Journal of Supercomputing, 2018, 74, 4127-4169.	2.4	28
6	Self-configuration in humanized Cyber-Physical Systems. Journal of Ambient Intelligence and Humanized Computing, 2017, 8, 485-496.	3.3	24
7	An Intra-Slice Security Solution for Emerging 5G Networks Based on Pseudo-Random Number Generators. IEEE Access, 2018, 6, 16149-16164.	2.6	24
8	Enhancing Evacuation Plans with a Situation Awareness System Based on End-User Knowledge Provision. Sensors, 2014, 14, 11153-11178.	2.1	23
9	Data Authentication and Anonymization in IoT Scenarios and Future 5G Networks Using Chaotic Digital Watermarking. IEEE Access, 2021, 9, 22378-22398.	2.6	23
10	Volunteered Geographic Information System Design: Project and Participation Guidelines. ISPRS International Journal of Geo-Information, 2016, 5, 108.	1.4	21
11	Enhanced Peer Assessment in MOOC Evaluation Through Assignment and Review Analysis. International Journal of Emerging Technologies in Learning, 2018, 13, 206.	0.8	21
12	Enabling Flexible and Continuous Capability Invocation in Mobile Prosumer Environments. Sensors, 2012, 12, 8930-8954.	2.1	20
13	Stochastic and Information Theory Techniques to Reduce Large Datasets and Detect Cyberattacks in Ambient Intelligence Environments. IEEE Access, 2018, 6, 34896-34910.	2.6	19
14	A Blockchain-based Water Control System for the Automatic Management of Irrigation Communities. , 2019, , .		19
15	A Deep Learning-Based Solution for Large-Scale Extraction of the Secondary Road Network from High-Resolution Aerial Orthoimagery. Applied Sciences (Switzerland), 2020, 10, 7272.	1.3	17
16	A Framework Based on Nesting of Convolutional Neural Networks to Classify Secondary Roads in High Resolution Aerial Orthoimages. Remote Sensing, 2020, 12, 765.	1.8	17
17	Assessment of human motivation through analysis of physiological and emotional signals in Industry 4.0 scenarios. Journal of Ambient Intelligence and Humanized Computing, 2024, 15, 1443-1463.	3.3	16
18	Securing Internet-of-Things Systems Through Implicit and Explicit Reputation Models. IEEE Access, 2018, 6, 47472-47488.	2.6	16

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19	Enabling trustworthy personal data protection in eHealth and well-being services through privacy-by-design. International Journal of Distributed Sensor Networks, 2020, 16, 155014772091211.	1.3	16
20	Recognizing human activities in Industry 4.0 scenarios through an analysis-modeling- recognition algorithm and context labels. Integrated Computer-Aided Engineering, 2021, 29, 83-103.	2.5	16
21	Protecting Industry 4.0 Systems Against the Malicious Effects of Cyber-Physical Attacks. Lecture Notes in Computer Science, 2017, , 161-171.	1.0	16
22	Experiences and Challenges in Deploying OpenFlow over Real Wireless Mesh Networks. IEEE Latin America Transactions, 2013, 11, 955-961.	1.2	15
23	A Methodology for the Design of Application-Specific Cyber-Physical Social Sensing Co-Simulators. Sensors, 2017, 17, 2177.	2.1	15
24	Resolving coordination challenges in distributed mobile service executions. International Journal of Web and Grid Services, 2014, 10, 168.	0.4	14
25	An Ambient Intelligence Framework for End-User Service Provisioning in a Hospital Pharmacy: a Case Study. Journal of Medical Systems, 2015, 39, 116.	2.2	14
26	Needs, drivers, participants and engagement actions: a framework for motivating contributions to volunteered geographic information systems. Journal of Geographical Systems, 2019, 21, 5-41.	1.9	14
27	Generative Learning for Postprocessing Semantic Segmentation Predictions: A Lightweight Conditional Generative Adversarial Network Based on Pix2pix to Improve the Extraction of Road Surface Areas. Land, 2021, 10, 79.	1.2	14
28	Analyzing UAV-Based Remote Sensing and WSN Support for Data Fusion. Advances in Intelligent Systems and Computing, 2018, , 756-766.	0.5	13
29	Protecting Private Communications in Cyber-Physical Systems through Physical Unclonable Functions. Electronics (Switzerland), 2019, 8, 390.	1.8	13
30	Denial of Chain: Evaluation and prediction of a novel cyberattack in Blockchain-supported systems. Future Generation Computer Systems, 2021, 116, 426-439.	4.9	13
31	A Hardware-Supported Algorithm for Self-Managed and Choreographed Task Execution in Sensor Networks. Sensors, 2018, 18, 812.	2.1	12
32	Service management in virtualization-based architectures for 5G systems with network slicing. Integrated Computer-Aided Engineering, 2019, 27, 77-99.	2.5	12
33	Trust Provision in the Internet of Things using Transversal Blockchain Networks. Intelligent Automation and Soft Computing, 0, , -1--1.	1.6	12
34	Fast self-configuration in service-oriented Smart Environments for real-time applications. Journal of Ambient Intelligence and Smart Environments, 2018, 10, 143-167.	0.8	11
35	A Systematic Approach for Service Prosumerization in IoT Scenarios. , 2013, , .		10
36	Plug-and-Play Transducers in Cyber-Physical Systems for Device-Driven Applications. , 2016, , .		10

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37	Rule-based monitoring and coordination of resource consumption in smart communities. IEEE Transactions on Consumer Electronics, 2017, 63, 191-199.	3.0	10
38	Improving Road Surface Area Extraction via Semantic Segmentation with Conditional Generative Learning for Deep Inpainting Operations. ISPRS International Journal of Geo-Information, 2022, 11, 43.	1.4	10
39	Experiences and challenges in deploying openflow over a real wireless mesh network. , 2012, , .		9
40	Supporting variability dependencies for rule-based service compositions in prosumer environments. International Journal of Web and Grid Services, 2015, 11, 57.	0.4	9
41	Optimizing the Recognition and Feature Extraction of Wind Turbines through Hybrid Semantic Segmentation Architectures. Remote Sensing, 2020, 12, 3743.	1.8	9
42	Predictive algorithms for mobility and device lifecycle management in Cyber-Physical Systems. Eurasip Journal on Wireless Communications and Networking, 2016, 2016, .	1.5	8
43	An agent-based method for trust graph calculation in resource constrained environments. Integrated Computer-Aided Engineering, 2019, 27, 37-56.	2.5	8
44	Future Supermarket: Overcoming Food Awareness Challenges. , 2013, , .		7
45	On the Support of Scientific Workflows over Pub/Sub Brokers. Sensors, 2013, 13, 10954-10980.	2.1	7
46	A Hot-topic based Distribution and Notification of Events in Pub/Sub Mobile Brokers.. Network Protocols and Algorithms, 2013, 5, .	1.0	7
47	A Mobile Crowdsourcing Platform for Urban Infrastructure Maintenance. , 2014, , .		7
48	Virtualization-Based Techniques for the Design, Management and Implementation of Future 5G Systems with Network Slicing. Advances in Intelligent Systems and Computing, 2018, , 133-143.	0.5	7
49	A Methodological Approach to Using Geodesign in Transmission Line Projects. Sustainability, 2018, 10, 2757.	1.6	7
50	Enabling Efficient Communications with Resource Constrained Information Endpoints in Smart Homes. Sensors, 2019, 19, 1779.	2.1	7
51	Digital Food Product Traceability: Using Blockchain in the International Commerce. Advances in Intelligent Systems and Computing, 2019, , 224-231.	0.5	7
52	Managing Wireless Communications for Emergency Situations in Urban Environments through Cyber-Physical Systems and 5G Technologies. Electronics (Switzerland), 2020, 9, 1524.	1.8	7
53	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. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 7968-7980.	2.3	7
54	Prosumer Framework for Knowledge Management Based on Prosumer Service Patterns. International Journal of Software Engineering and Knowledge Engineering, 2016, 26, 1145-1173.	0.6	6

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55	Process execution in humanized Cyber-physical systems: Soft processes. , 2017, , .		6
56	An Inter-slice Management Solution for Future Virtualization-Based 5G Systems. Advances in Intelligent Systems and Computing, 2020, , 1059-1070.	0.5	6
57	Towards Outlier Sensor Detection in Ambient Intelligent Platformsâ€"A Low-Complexity Statistical Approach. Sensors, 2020, 20, 4217.	2.1	6
58	Lightweight encryption for short-range wireless biometric authentication systems in Industry 4.0. Integrated Computer-Aided Engineering, 2022, 29, 153-173.	2.5	6
59	Towards the Convergence between IMS and Social Networks. , 2010, , .		5
60	Resolving Coordination Challenges in Cooperative Mobile Services. , 2012, , .		5
61	An autonomous information device with e-paper display for personal environments. , 2016, , .		5
62	Smart Cities Semantics and Data Models. Advances in Intelligent Systems and Computing, 2018, , 77-85.	0.5	5
63	On the Characterization of Collaborative Mobile Services for the Internet of Things. , 2013, , .		4
64	A service-oriented monitoring system based on rule evaluation for Home Automation. , 2017, , .		4
65	Provision of next-generation personalized cyber-physical services. , 2018, , .		4
66	Volunteered geographic information systems: Technological design patterns. Transactions in GIS, 2019, 23, 976-1007.	1.0	4
67	A Two-Phase Algorithm for Recognizing Human Activities in the Context of Industry 4.0 and Human-Driven Processes. Advances in Intelligent Systems and Computing, 2019, , 175-185.	0.5	4
68	People-as-a-Service Dilemma: Humanizing Computing Solutions in High-Efficiency Applications. Proceedings (mdpi), 2019, 31, 39.	0.2	4
69	Protecting Physical Communications in 5G C-RAN Architectures through Resonant Mechanisms in Optical Media. Sensors, 2020, 20, 4104.	2.1	4
70	A Predictor-Corrector Algorithm Based on Laurent Series for Biological Signals in the Internet of Medical Things. IEEE Access, 2020, 8, 109360-109371.	2.6	4
71	Digital user-industry interactions and Industry 4.0 services to improve customersâ€™ experience and satisfaction in the European bakery sector. , 2021, , .		4
72	A Rendezvous Mobile Broker for Pub/Sub Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2013, , 16-27.	0.2	4

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73	Characterizing the multimedia service capacity of wireless mesh networks for rural communities. , 2012, , .		3
74	An Extended Topic-Based Pub/Sub Broker for Cooperative Mobile Services. , 2013, , .		3
75	A Variability Model for Template Personalization in Mobile Prosumer Environments. , 2013, , .		3
76	Message fragmentation assessment in DTN nanosatellite-based sensor networks. Ad Hoc Networks, 2016, 44, 76-89.	3.4	3
77	Towards a Wireless and Low-Power Infrastructure for Representing Information Based on E-Paper Displays. Sustainability, 2017, 9, 76.	1.6	3
78	Blockchain Technologies for Private Data Management in AmI Environments. Proceedings (mdpi), 2018, 2, .	0.2	3
79	A Deep Convolutional Neural Network to Detect the Existence of Geospatial Elements in High-Resolution Aerial Imagery. Proceedings (mdpi), 2019, 19, .	0.2	3
80	Prosumerization Approach to Semantic Ambient Intelligence Platforms. Lecture Notes in Computer Science, 2017, , 109-120.	1.0	3
81	Flexible Service Composition Based on Bundle Communication in OSGi. KSII Transactions on Internet and Information Systems, 0, , .	0.7	3
82	Processing semantic IoT data using a prosumer approach for simulating scenarios on ambient intelligence environments. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 75-86.	3.3	3
83	Designing a Volunteered Geographic Information System for Road Data Validation. Proceedings (mdpi), 2019, 19, .	0.2	2
84	Cyber-Physical Systems for Environment and People Monitoring in Large Facilities: A Study Case in Public Health. Advances in Intelligent Systems and Computing, 2019, , 406-416.	0.5	2
85	Automatic Detection of Erratic Sensor Observations in Ami Platforms: A Statistical Approach â€. Proceedings (mdpi), 2019, 31, .	0.2	2
86	Controlling Supervised Industry 4.0 Processes through Logic Rules and Tensor Deformation Functions. Informatica, 2021, , 217-245.	1.5	2
87	Supervising Industrial Distributed Processes Through Soft Models, Deformation Metrics and Temporal Logic Rules. Advances in Intelligent Systems and Computing, 2020, , 125-136.	0.5	2
88	Building Smart Adaptable Cyber-Physical Systems: Definitions, Classification and Elements. Lecture Notes in Computer Science, 2015, , 144-149.	1.0	2
89	Improving MOOC Student Learning Through Enhanced Peer-to-Peer Tasks. Lecture Notes in Computer Science, 2017, , 140-149.	1.0	2
90	Communication Architecture for Tracking and Interoperable Services at Hospitals: A Real Deployment Experience. Lecture Notes in Computer Science, 2011, , 84-91.	1.0	2

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91	Web Browser HTML5 Enabled for FI Services. Lecture Notes in Computer Science, 2012, , 181-184.	1.0	2
92	Improving Learning Tasks for Mentally Handicapped People Using AmI Environments Based on Cyber-Physical Systems. Lecture Notes in Computer Science, 2016, , 166-177.	1.0	2
93	Game Theoretic Optimal User Association in Emergency Networks. Lecture Notes in Computer Science, 2019, , 18-31.	1.0	2
94	Prediction-Correction Techniques to Support Sensor Interoperability in Industry 4.0 Systems. Sensors, 2021, 21, 7301.	2.1	2
95	Distributed Trust and Reputation Services in Pervasive Internet-of-Things Deployments. Communications in Computer and Information Science, 2022, , 16-29.	0.4	2
96	Increasing the Efficiency and Workers Wellbeing in the European Bakery Industry: An Industry 4.0 Case Study. Lecture Notes in Networks and Systems, 2022, , 646-658.	0.5	2
97	An Optimization Algorithm for the Efficient Distribution of Resources in 6G Verticals. Lecture Notes in Networks and Systems, 2022, , 103-114.	0.5	2
98	Mixed Reality-Aware Service Architecture for Mobile Environments. , 2012, , .		1
99	Enabling Efficient Service Distribution using Process Model Transformations. International Journal of Data Warehousing and Mining, 2016, 12, 1-19.	0.4	1
100	Distributed Query Results and IoT Data in a Publish-Subscribe Network Implementing User Notifications. , 2016, , .		1
101	Improving Learning Tasks for Mentally Handicapped People Using AmI Environments Based on Cyber-Physical Systems. Mobile Information Systems, 2018, 2018, 1-12.	0.4	1
102	A framework for enhancing mobile workflow execution through injection of flexible security controls. Analog Integrated Circuits and Signal Processing, 2018, 96, 303-316.	0.9	1
103	An Automatic Key Generator based on Physical Functions for Resource Constrained Nodes in Future Wireless Sensor Networks. , 2019, , .		1
104	An Industry 4.0 Solution for the Detection of Dangerous Situations in Civil Work Scenarios. Advances in Intelligent Systems and Computing, 2019, , 494-504.	0.5	1
105	FLIPPED CLASSROOM AND EDUCATIONAL VIDEOS TO IMPROVE THE CYBERSECURITY COMPETENCIES IN FUTURE COMPUTER ENGINEERS. EDULEARN Proceedings, 2021, , .	0.0	1
106	Trust-enhancing technologies: Blockchain mathematics in the context of Industry 4.0. , 2021, , 1-22.		1
107	Decision Making Environment Based on Prosumer Services for Tracing Drugs in a Hospital Pharmacy Department. Lecture Notes in Computer Science, 2014, , 324-332.	1.0	1
108	Cyber-Physical Sensors and Devices for the Provision of Next-Generation Personalized Services. Advances in Intelligent Systems and Computing, 2019, , 479-490.	0.5	1

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109	EMPLOYING EXTRINSIC MOTIVATION TECHNIQUES AND OPTIONAL EVALUATION ACTIVITIES TO PROMOTE STUDENT LEARNING. EDULEARN Proceedings, 2018, , .	0.0	1
110	Improving Cooperativity in a Workflow Coordination Model over a Pub/Sub Network. Lecture Notes in Computer Science, 2012, , 216-223.	1.0	1
111	A Four-Leaf Clover Shape Methodology for Prosumer Service Developments. Lecture Notes in Computer Science, 2014, , 488-495.	1.0	1
112	Smart Dynamic Pricing Based on ECA Rules and Electronic Ink Labeling for Retail. Lecture Notes in Computer Science, 2014, , 468-475.	1.0	1
113	Flexible Service Provision in Context-Aware Cyber-Physical Systems. Advances in Intelligent Systems and Computing, 2018, , 873-883.	0.5	1
114	PROPOSAL OF AN EXPERIENTIAL LEARNING ENVIRONMENT IN THE CLOUD FOR THE CAPTURE AND PROCESSING OF GEOSPATIAL INFORMATION BY HIGHER EDUCATION STUDENTS. , 2017, , .		1
115	Creating Predictive Models for Forecasting the Accident Rate in Mountain Roads Using VANETs. Advances in Intelligent Systems and Computing, 2018, , 319-329.	0.5	1
116	A BLOCKCHAIN-BASED LEARNING ENVIRONMENT FOR GROUP PROJECT ASSESSMENT IN HIGHER EDUCATION. , 2018, , .		1
117	Evaluation of Transfer Learning Techniques with Convolutional Neural Networks (CNNs) to Detect the Existence of Roads in High-Resolution Aerial Imagery. Communications in Computer and Information Science, 2019, , 185-198.	0.4	1
118	Semantic Segmentation of Weeds and Crops in Multispectral Images by Using a Convolutional Neural Networks Based on U-Net. Communications in Computer and Information Science, 2020, , 473-485.	0.4	1
119	Converged service provision in multidomain environments for the Future Internet. , 2009, , .		0
120	A reference mobile system for extending content in dynamic domestic environments. , 2014, , .		0
121	Estudio y caracterizaciã³n ã³ptica de un Carcinoma Basocelular mediante simulaciã³n lã¡ser numã©rica. Sanidad Militar, 2015, 71, 84-90.	0.0	0
122	Simulation of apparent optical properties in different seawater. Optical Review, 2015, 22, 497-510.	1.2	0
123	An Integrated Framework for Enabling End-User Configuration of AmI Simulations for Open Wide Locations. Lecture Notes in Computer Science, 2015, , 413-424.	1.0	0
124	Bioengineering learning models to explain nonlinarearity and chaos. , 2016, , .		0
125	Lifecycle of Geospatial Data in a High-Voltage Electrical Infrastructure Project: Geodesign Framework in the Electrical Network of Spain (REE). Proceedings (mdpi), 2019, 19, .	0.2	0
126	Sharing Device Resources in Heterogeneous CPS Using Unique Identifiers with Multi-site Systems Environments. Advances in Intelligent Systems and Computing, 2019, , 153-164.	0.5	0

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127	Automatic service deployment in resource constrained ad-hoc networks with configurable QoS. , 2020, , .		0
128	Flexible Physical Process Control Through Predictor-Corrector Differential Models in Industry 4.0 Scenarios. Advances in Intelligent Systems and Computing, 2021, , 535-545.	0.5	0
129	COMPARING THE PERFORMANCE AND MOTIVATION OF STUDENTS IN TECHNICAL DEGREES UNDER DIFFERENT TEACHING STRATEGIES: MOOC, FLIPPED CLASSROOM AND TRADITIONAL IN-PERSON CLASSES. EDULEARN Proceedings, 2021, , .	0.0	0
130	End-User Service Distribution for Efficient Inter-Domain Execution. Lecture Notes in Computer Science, 2014, , 480-487.	1.0	0
131	Services Collaboration Supported by a B2B Platform in Retail Environment. Lecture Notes in Computer Science, 2014, , 496-502.	1.0	0
132	Smart Product Management in Retail Environment Based on Dynamic Pricing and Location Services. Lecture Notes in Computer Science, 2014, , 171-178.	1.0	0
133	Low-Level Service Management in Cyber-Physical Systems. Advances in Intelligent Systems and Computing, 2018, , 860-872.	0.5	0
134	DISEÃ'O DE ESTRATEGIAS DE CROWDSOURCING EN SISTEMAS DE INFORMACIÃ"N GEOGRÃFICA VOLUNTARIA. , 0, , .		0
135	IMPACT EVALUATION OF THE TUTORING METHODOLOGY IN THE COMPETENCE ACQUISITION BY STUDENTS DURING THE ELABORATION OF THE FINAL PROJECT. , 2017, , .		0
136	INFORMAL LEARNING TECHNIQUES TO ENHANCE THE SPECIFIC COMPETENCY ACQUISITION DURING THE FIRST COURSES OF TECHNICAL DEGREES. INTED Proceedings, 2018, , .	0.0	0
137	IMPROVING THE TUTORIAL ACTION THROUGH THE EMPLOYMENT OF SOCIAL NETWORKS AND WEB 2.0 TOOLS: A STUDY CASE. , 2018, , .		0
138	IMPACT EVALUATION OF P2P ACTIVITIES IN THE COMPLETION RATE OF MASSIVE OPEN ONLINE COURSES IN SPANISH-PORTUGUESE PLATFORMS. , 2018, , .		0
139	EVALUATION OF THE INTRINSIC IMPROVEMENT OF THE ACADEMIC AND PROFESSIONAL RESULTS OBTAINED BY DIGITAL NATIVE STUDENTS IN ENGINEERING DEGREES. , 2018, , .		0
140	ENHANCING STUDENTSâ€™ MOTIVATION AND ACADEMIC RESULTS IN THE CONTEXT OF FINAL PROJECTS THROUGH DESIGN-THINKING METHODOLOGIES. INTED Proceedings, 2019, , .	0.0	0
141	ARE TRADITIONAL (NON-DIGITAL) CLASSROOMS A PROBLEM IN HIGHER EDUCATION? A STUDY ABOUT HOW THE PRESENCE (NOT USE) OF COMPUTERS IMPACTS ON STUDENTS. INTED Proceedings, 2019, , .	0.0	0
142	Digital Watermarking for Enriched Video Streams in Edge Computing Architectures Using Chaotic Mixtures and Physical Unclonable Functions. Communications in Computer and Information Science, 2020, , 112-125.	0.4	0
143	IMPACT OF TEACHING PLANNING IN THE ACADEMIC RESULTS OF STUDENTS: A STUDY CASE. , 2020, , .		0
144	IMPROVING STUDENTSâ€™ MOTIVATION IN THE CONTEXT OF FINAL PROJECTS THROUGH TEAMWORK AND HIGH-TECH PROJECTS. INTED Proceedings, 2020, , .	0.0	0