

Marcelo V Garcia

List of Publications by Year in descending order

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83
papers

701
citations

759233

12
h-index

794594

19
g-index

94
all docs

94
docs citations

94
times ranked

440
citing authors

#	ARTICLE	IF	CITATIONS
1	Fog computing at industrial level, architecture, latency, energy, and security: A review. Heliyon, 2020, 6, e03706.	3.2	69
2	A Scoping Review on Virtual Reality-Based Industrial Training. Applied Sciences (Switzerland), 2020, 10, 8224.	2.5	41
3	Flexible robotic teleoperation architecture for intelligent oil fields. Heliyon, 2020, 6, e03833.	3.2	37
4	OPC-UA communications integration using a CPPS architecture. , 2016, , .		30
5	Low-Cost Automation for Gravity Compensation of Robotic Arm. Applied Sciences (Switzerland), 2020, 10, 3823.	2.5	30
6	An Approach of Virtual Reality Environment for Technicians Training in Upstream Sector. IFAC-PapersOnLine, 2019, 52, 285-291.	0.9	28
7	An Open CPPS Automation Architecture based on IEC-61499 over OPC-UA for flexible manufacturing in Oil&Gas Industry. IFAC-PapersOnLine, 2017, 50, 1231-1238.	0.9	23
8	Developing CPPS within IEC-61499 based on low cost devices. , 2015, , .		21
9	An Approach of Training Virtual Environment for Teaching Electro-Pneumatic Systems. IFAC-PapersOnLine, 2019, 52, 278-284.	0.9	21
10	Building industrial CPS with the IEC 61499 standard on low-cost hardware platforms. , 2014, , .		20
11	Flexible Architecture for Transparency of a Bilateral Tele-Operation System implemented in Mobile Anthropomorphic Robots for the Oil and Gas Industry. IFAC-PapersOnLine, 2018, 51, 239-244.	0.9	20
12	Plant floor communications integration using a low cost CPPS architecture. , 2016, , .		14
13	UML-Based Cyber-Physical Production Systems on Low-Cost Devices under IEC-61499. Machines, 2018, 6, 22.	2.2	14
14	Arquitectura de Automatizaci3n basada en Sistemas Ciberf3sicos para la Fabricaci3n Flexible en la Industria de Petr3leo y Gas. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2018, 15, 156.	1.0	14
15	A model-based approach for process monitoring in oil production industry. , 2016, , .		13
16	Human-Robot Collaboration Based on Cyber-Physical Production System and MQTT. Procedia Manufacturing, 2020, 42, 315-321.	1.9	13
17	Enabling an automation architecture of CPPs based on UML combined with IEC-61499. , 2017, , .		12
18	Human Machine Interfaces Based on Open Source Web-Platform and OPC UA. Procedia Manufacturing, 2020, 42, 307-314.	1.9	12

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19	An Augmented Reality Platform for training in the industrial context. IFAC-PapersOnLine, 2020, 53, 197-202.	0.9	11
20	Fuzzy control implementation in low cost CPPS devices. , 2017, , .		10
21	CPPS on low cost devices for batch process under IEC-61499 and ISA-88. , 2017, , .		10
22	User Experience Evaluation of an Interactive Virtual Reality-Based System for Upper Limb Rehabilitation. , 2019, , .		10
23	Augmented Reality for Robot Control in Low-cost Automation Context and IoT. , 2020, , .		9
24	An Approach of Cyber-Physical Production Systems Architecture for Robot Control. , 2018, , .		8
25	Industrial Shop-Floor Integration Based on AMQP protocol in an IoT Environment. , 2019, , .		8
26	Virtual Assistance Environment for Deaf People Based on an Electronic Gauntlet. , 2018, , .		7
27	From ISA 88/95 meta-models to an OPC UA-based development tool for CPPS under IEC 61499. , 2018, , .		7
28	Intelligent Oil Field Approach Using Virtual Reality and Mobile Anthropomorphic Robots. Lecture Notes in Computer Science, 2018, , 467-478.	1.3	7
29	SCRUM and Extreme Programming Agile Model Approach for Virtual Training Environment Design. , 2019, , .		7
30	Multifunctional Exoskeletal Orthosis for Hand Rehabilitation Based on Virtual Reality. Advances in Intelligent Systems and Computing, 2019, , 209-221.	0.6	7
31	Lot Streaming in Different Types of Production Processes: A PRISMA Systematic Review. Designs, 2021, 5, 67.	2.4	7
32	Engineering tool to develop CPPS based on IEC-61499 and OPC UA for oil&gas process. , 2017, , .		6
33	Flexible Container Platform Architecture for Industrial Robot Control. , 2018, , .		6
34	Industrial Training Platform Using Augmented Reality for Instrumentation Commissioning. Lecture Notes in Computer Science, 2020, , 268-283.	1.3	6
35	Designing Automation Distributed Systems Based on IEC-61499 and UML. , 2017, , .		5
36	Design of Flexible Cyber-Physical Production Systems Architecture for Industrial Robot Control. , 2018, , .		5

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37	Vertical integration approach for the intelligent Oil & Gas field. <i>Automatisierungstechnik</i> , 2018, 66, 859-874.	0.8	5
38	MPC Under IEC-61499 Using Low-Cost Devices for Oil Pipeline System. , 2018, , .		5
39	Evaluation of WhatsApp to Promote Collaborative Learning in the Use of Software in University Professionals. <i>Communications in Computer and Information Science</i> , 2020, , 3-12.	0.5	5
40	Arquitectura flexible basada en ISA 88 para el diseño del diagrama de control de ejecución en aplicaciones distribuidas usando IEC 61499. <i>Enfoque</i> , 2018, 9, 149-165.	0.4	5
41	Low cost CPPs for industrial control under FAHP algorithm. , 2017, , .		4
42	Low-Cost Cyber-Physical Production Systems for Industrial Control Robots Under IEC 61499. , 2018, , .		4
43	Flexible Robotic Teleoperation Architecture Under IEC 61499 Standard for Oil & Gas Process. , 2018, , .		4
44	An Approach of Load Balancers for Low-cost CPPs in Software-defined Networking Architecture. , 2019, , .		4
45	Training Virtual Environment for Teaching Simulation and Control of Pneumatic Systems. <i>Lecture Notes in Computer Science</i> , 2019, , 91-104.	1.3	4
46	Virtual Environment for Training Oil & Gas Industry Workers. <i>Lecture Notes in Computer Science</i> , 2019, , 379-392.	1.3	4
47	Cyber-Physical Production Systems for Industrial Shop-Floor Integration Based on AMQP. , 2019, , .		4
48	Development of a Virtual Reality Environment Based on the CoAP Protocol for Teaching Pneumatic Systems. <i>Lecture Notes in Computer Science</i> , 2021, , 528-543.	1.3	4
49	Identification of patterns in the involvement of novice software developers in software testing processes. , 2021, , .		4
50	Training virtual reality-based system for detection and simulation of motors failures. <i>Journal of Physics: Conference Series</i> , 2021, 1983, 012099.	0.4	4
51	Assessment of Engineering Techniques for Failures Simulation in Induction Motors Using Numerical Tool. <i>Smart Innovation, Systems and Technologies</i> , 2021, , 307-319.	0.6	4
52	Analysis of AMQP for Industrial Internet of Things Based on Low-Cost Automation. <i>Smart Innovation, Systems and Technologies</i> , 2021, , 235-244.	0.6	4
53	An Approach of Low-cost Software-Defined Network (SDN) Based Internet of Things. , 2020, , .		4
54	Controlled high pressure grinding roll by model predictive control. , 2017, , .		3

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55	Wearable Telemedicine System for Real-Time Monitoring of Electrocardiographic Signals. , 2019, , .		3
56	Web-Platform for Developing Man-Machine Interfaces Based on OPC UA. , 2019, , .		3
57	Robotic Arm Manipulation Under IEC 61499 and ROS-based Compatible Control Scheme. Advances in Intelligent Systems and Computing, 2019, , 358-371.	0.6	3
58	Challenges of Implementing Cleaner Production Strategies in the Food and Beverage Industry: Literature Review. Advances in Intelligent Systems and Computing, 2021, , 121-133.	0.6	3
59	Scoping Review of the Work Measurement for Improving Processes and Simulation of Standards. Advances in Intelligent Systems and Computing, 2021, , 543-560.	0.6	3
60	Lean Manufacturing Tools for Industrial Process: A Literature Review. Lecture Notes in Networks and Systems, 2022, , 27-35.	0.7	3
61	Integraci3n Vertical en plantas industriales utilizando OPC UA e IEC-61499. Enfoque, 2017, 8, 287-299.	0.4	3
62	FAHP decisions developing in low cost CPPs. , 2017, , .		2
63	Virtual Reality-Based System for Hand Rehabilitation Using an Exoskeletal Orthosis. Lecture Notes in Computer Science, 2018, , 105-117.	1.3	2
64	Monitoring and Control System Approach for Native Threatened Species. , 2019, , .		2
65	An Immersive Training Approach for Induction Motor Fault Detection and Troubleshooting. Lecture Notes in Computer Science, 2021, , 499-510.	1.3	2
66	Implementaci3n de sistemas distribuidos de bajo costo bajo norma IEC-61499, en la estaci3n de clasificaci3n y manipulaci3n del MPS 500. Ingenius: Revista De Ciencia Y TecnologÃa, 2017, , 40.	0.1	2
67	Convolutional Neural Network Applied to the Gesticulation Control of an Interactive Social Robot with Humanoid Aspect. Advances in Intelligent Systems and Computing, 2020, , 1039-1053.	0.6	2
68	Evaluation of Internet of Things Protocols for Shopfloor Communication Integration. Advances in Intelligent Systems and Computing, 2020, , 199-213.	0.6	2
69	Software-Defined Network (SDN) Based Internet of Things within the context of low-cost automation. , 2020, , .		2
70	Upper Limb Rehabilitation with Virtual Environments. Lecture Notes in Computer Science, 2019, , 330-343.	1.3	1
71	Management of Humanitarian Logistics in the Stages Prior to Natural Disasters in Canton Ambato, Ecuador. Advances in Intelligent Systems and Computing, 2020, , 97-108.	0.6	1
72	Measurement of Work as a Basis for Improving Processes and Simulation of Standards: A Scoping Literature Review. Advances in Intelligent Systems and Computing, 2021, , 77-92.	0.6	1

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73	Use of Bots to Support Management Software Development and Streamline Client/Producer Communication in the 5.0 Industry. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 401-410.	0.6	1
74	Low-Cost Cyber-Physical Production Systems Based on IEC 61499 for Analog Process. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 336-342.	0.6	1
75	An Approach of a Control System for Autonomous Driving Based on Artificial Vision Techniques and NAO Robot. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 196-206.	0.6	1
76	Desarrollo de sistemas ciber-físicos de producción para Procesamiento por lotes usando normas IEC-61499 e ISA-88. <i>Ingeniare</i> , 2019, 27, 443-453.	0.3	1
77	Performance Evaluation of AMQP and CoAP for Low-Cost Automation. <i>Communications in Computer and Information Science</i> , 2020, , 340-353.	0.5	1
78	Detection of Incipient Faults in Three-Phase Motors Through Analysis of Stator Currents. <i>Communications in Computer and Information Science</i> , 2021, , 250-263.	0.5	1
79	Bearing faults and broken bars simulation in an induction motor using an engineering tool. <i>Journal of Physics: Conference Series</i> , 2020, 1633, 012158.	0.4	0
80	IEC 61499 Based Control for Low-Cost Cyber-Physical Production Systems. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 233-245.	0.6	0
81	Low-Cost Embedded System for Shop Floor Communications and Control Based on OPC-UA. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 3-12.	0.6	0
82	Bio-mechanical Analysis of Knee Stresses Based on Finite Elements Approach. <i>Communications in Computer and Information Science</i> , 2020, , 480-492.	0.5	0
83	Oil and Gas Upstream Sector: The use of IEC-61499 and OPC. , 2021, , 1-32.		0