

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	Lean Manufacturing Tools for Industrial Process: A Literature Review. Lecture Notes in Networks and Systems, 2022, , 27-35.	0.7	3
2	An Immersive Training Approach for Induction Motor Fault Detection and Troubleshooting. Lecture Notes in Computer Science, 2021, , 499-510.	1.3	2
3	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
4	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
5	Use of Bots to Support Management Software Development and Streamline Client/Producer Communication in the 5.0 Industry. Advances in Intelligent Systems and Computing, 2021, , 401-410.	0.6	1
6	Low-Cost Cyber-Physical Production Systems Based on IEC 61499 for Analog Process. Advances in Intelligent Systems and Computing, 2021, , 336-342.	0.6	1
7	Development of a Virtual Reality Environment Based on the CoAP Protocol for Teaching Pneumatic Systems. Lecture Notes in Computer Science, 2021, , 528-543.	1.3	4
8	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
9	Identification of patterns in the involvement of novice software developers in software testing processes. , 2021, , .		4
10	Training virtual reality-based system for detection and simulation of motors failures. Journal of Physics: Conference Series, 2021, 1983, 012099.	0.4	4
11	IEC 61499 Based Control for Low-Cost Cyber-Physical Production Systems. Advances in Intelligent Systems and Computing, 2021, , 233-245.	0.6	0
12	Assessment of Engineering Techniques for Failures Simulation in Induction Motors Using Numerical Tool. Smart Innovation, Systems and Technologies, 2021, , 307-319.	0.6	4
13	Lot Streaming in Different Types of Production Processes: A PRISMA Systematic Review. Designs, 2021, 5, 67.	2.4	7
14	Analysis of AMQP for Industrial Internet of Things Based on Low-Cost Automation. Smart Innovation, Systems and Technologies, 2021, , 235-244.	0.6	4
15	Detection of Incipient Faults in Three-Phase Motors Through Analysis of Stator Currents. Communications in Computer and Information Science, 2021, , 250-263.	0.5	1
16	Oil and Gas Upstream Sector: The use of IEC-61499 and OPC. , 2021, , 1-32.		0
17	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
18	A Scoping Review on Virtual Reality-Based Industrial Training. Applied Sciences (Switzerland), 2020, 10, 8224.	2.5	41

#	ARTICLE	IF	CITATIONS
19	Augmented Reality for Robot Control in Low-cost Automation Context and IoT. , 2020, , .		9
20	Bearing faults and broken bars simulation in an induction motor using an engineering tool. Journal of Physics: Conference Series, 2020, 1633, 012158.	0.4	0
21	Fog computing at industrial level, architecture, latency, energy, and security: A review. Heliyon, 2020, 6, e03706.	3.2	69
22	Low-Cost Automation for Gravity Compensation of Robotic Arm. Applied Sciences (Switzerland), 2020, 10, 3823.	2.5	30
23	Flexible robotic teleoperation architecture for intelligent oil fields. Heliyon, 2020, 6, e03833.	3.2	37
24	Human-Robot Collaboration Based on Cyber-Physical Production System and MQTT. Procedia Manufacturing, 2020, 42, 315-321.	1.9	13
25	Human Machine Interfaces Based on Open Source Web-Platform and OPC UA. Procedia Manufacturing, 2020, 42, 307-314.	1.9	12
26	An Approach of a Control System for Autonomous Driving Based on Artificial Vision Techniques and NAO Robot. Advances in Intelligent Systems and Computing, 2020, , 196-206.	0.6	1
27	Evaluation of WhatsApp to Promote Collaborative Learning in the Use of Software in University Professionals. Communications in Computer and Information Science, 2020, , 3-12.	0.5	5
28	Industrial Training Platform Using Augmented Reality for Instrumentation Commissioning. Lecture Notes in Computer Science, 2020, , 268-283.	1.3	6
29	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
30	Evaluation of Internet of Things Protocols for Shopfloor Communication Integration. Advances in Intelligent Systems and Computing, 2020, , 199-213.	0.6	2
31	Low-Cost Embedded System for Shop Floor Communications and Control Based on OPC-UA. Advances in Intelligent Systems and Computing, 2020, , 3-12.	0.6	0
32	Performance Evaluation of AMQP and CoAP for Low-Cost Automation. Communications in Computer and Information Science, 2020, , 340-353.	0.5	1
33	Bio-mechanical Analysis of Knee Stresses Based on Finite Elements Approach. Communications in Computer and Information Science, 2020, , 480-492.	0.5	0
34	An Augmented Reality Platform for training in the industrial context. IFAC-PapersOnLine, 2020, 53, 197-202.	0.9	11
35	Software-Defined Network (SDN) Based Internet of Things within the context of low-cost automation. , 2020, , .		2
36	An Approach of Low-cost Software-Defined Network (SDN) Based Internet of Things. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
37	An Approach of Load Balancers for Low-cost CPPSs in Software-defined Networking Architecture. , 2019, , .		4
38	Upper Limb Rehabilitation with Virtual Environments. Lecture Notes in Computer Science, 2019, , 330-343.	1.3	1
39	Training Virtual Environment for Teaching Simulation and Control of Pneumatic Systems. Lecture Notes in Computer Science, 2019, , 91-104.	1.3	4
40	Virtual Environment for Training Oil & Gas Industry Workers. Lecture Notes in Computer Science, 2019, , 379-392.	1.3	4
41	Wearable Telemedicine System for Real-Time Monitoring of Electrocardiographic Signals. , 2019, , .		3
42	User Experience Evaluation of an Interactive Virtual Reality-Based System for Upper Limb Rehabilitation. , 2019, , .		10
43	An Approach of Training Virtual Environment for Teaching Electro-Pneumatic Systems. IFAC-PapersOnLine, 2019, 52, 278-284.	0.9	21
44	An Approach of Virtual Reality Environment for Technicians Training in Upstream Sector. IFAC-PapersOnLine, 2019, 52, 285-291.	0.9	28
45	Industrial Shop-Floor Integration Based on AMQP protocol in an IoT Environment. , 2019, , .		8
46	Monitoring and Control System Approach for Native Threatened Species. , 2019, , .		2
47	Web-Platform for Developing Man-Machine Interfaces Based on OPC UA. , 2019, , .		3
48	Cyber-Physical Production Systems for Industrial Shop-Floor Integration Based on AMQP. , 2019, , .		4
49	SCRUM and Extreme Programming Agile Model Approach for Virtual Training Environment Design. , 2019, , .		7
50	Robotic Arm Manipulation Under IEC 61499 and ROS-based Compatible Control Scheme. Advances in Intelligent Systems and Computing, 2019, , 358-371.	0.6	3
51	Multifunctional Exoskeletal Orthosis for Hand Rehabilitation Based on Virtual Reality. Advances in Intelligent Systems and Computing, 2019, , 209-221.	0.6	7
52	Desarrollo de sistemas ciber-físicos de producción para Procesamiento por lotes usando normas IEC-61499 e ISA-88. Ingeniare, 2019, 27, 443-453.	0.3	1
53	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
54	Low-Cost Cyber-Physical Production Systems for Industrial Control Robots Under IEC 61499. , 2018, , .		4

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55	Flexible Robotic Teleoperation Architecture Under IEC 61499 Standard for Oil & Gas Process. , 2018, , .		4
56	An Approach of Cyber-Physical Production Systems Architecture for Robot Control. , 2018, , .		8
57	Design of Flexible Cyber-Physical Production Systems Architecture for Industrial Robot Control. , 2018, , .		5
58	Vertical integration approach for the intelligent Oil & Gas field. Automatisierungstechnik, 2018, 66, 859-874.	0.8	5
59	Virtual Assistance Environment for Deaf People Based on an Electronic Gauntlet. , 2018, , .		7
60	Flexible Container Platform Architecture for Industrial Robot Control. , 2018, , .		6
61	MPC Under IEC-61499 Using Low-Cost Devices for Oil Pipeline System. , 2018, , .		5
62	From ISA 88/95 meta-models to an OPC UA-based development tool for CPPS under IEC 61499. , 2018, , .		7
63	Intelligent Oil Field Approach Using Virtual Reality and Mobile Anthropomorphic Robots. Lecture Notes in Computer Science, 2018, , 467-478.	1.3	7
64	Virtual Reality-Based System for Hand Rehabilitation Using an Exoskeletal Orthosis. Lecture Notes in Computer Science, 2018, , 105-117.	1.3	2
65	UML-Based Cyber-Physical Production Systems on Low-Cost Devices under IEC-61499. Machines, 2018, 6, 22.	2.2	14
66	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
67	Arquitectura flexible basada en ISA 88 para el dise±o del diagrama de control de ejecuci3n en aplicaciones distribuidas usando IEC 61499. Enfoque, 2018, 9, 149-165.	0.4	5
68	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
69	Engineering tool to develop CPPS based on IEC-61499 and OPC UA for oil&gas process. , 2017, , .		6
70	Fuzzy control implementation in low cost CPPS devices. , 2017, , .		10
71	CPPS on low cost devices for batch process under IEC-61499 and ISA-88. , 2017, , .		10
72	Designing Automation Distributed Systems Based on IEC-61499 and UML. , 2017, , .		5

#	ARTICLE	IF	CITATIONS
73	Low cost CPPs for industrial control under FAHP algorithm. , 2017, , .		4
74	Controlled high pressure grinding roll by model predictive control. , 2017, , .		3
75	Enabling an automation architecture of CPPs based on UML combined with IEC-61499. , 2017, , .		12
76	FAHP decisions developing in low cost CPPs. , 2017, , .		2
77	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 Tecnolog3a, 2017, , 40.	0.1	2
78	Integraci3n Vertical en plantas industriales utilizando OPC UA e IEC-61499. Enfoque, 2017, 8, 287-299.	0.4	3
79	OPC-UA communications integration using a CPPS architecture. , 2016, , .		30
80	Plant floor communications integration using a low cost CPPS architecture. , 2016, , .		14
81	A model-based approach for process monitoring in oil production industry. , 2016, , .		13
82	Developing CPPS within IEC-61499 based on low cost devices. , 2015, , .		21
83	Building industrial CPS with the IEC 61499 standard on low-cost hardware platforms. , 2014, , .		20