Lucena Jr, V F

List of Publications by Year
in descending order

116 papers	634 citations	932766 10 h-index	940134 16 g-index
116 all docs	116 docs citations	116 times ranked	432 citing authors

#	Article	IF	Citations
1	Navigation robot training with Deep Q-Learning monitored by Digital Twin. , 2022, , .		2
2	Digital Twin Applications: A Survey of Recent Advances and Challenges. Processes, 2022, 10, 744.	1.3	30
3	Comparative Study of Control Methodologies and PLL Topologies to Enhance the Performance of the Synchronization of Grid-Tied PV System. , 2021, , .		1
4	Estabilização de reguladores de tensão da topologia buck conectado a uma CPL utilizando técnicas de controle baseadas em LMI. , 2021, , .		0
5	Robot Training and Navigation through the Deep Q-Learning Algorithm. , 2021, , .		0
6	APPLYING THE AUTOMATIONML TOOL TO IMPROVE THE STUDENTS' SKILLS IN AUTOMATION. , 2021, , .		0
7	INDUSTRIAL REAL-TIME DIGITAL TWIN SYSTEM FOR REMOTE TEACHING USING NODE-RED. , 2021, , .		0
8	VIRTUAL SETUP - AUTOMATIC VIRTUALIZATION OF INDUSTRIAL PLANTS FOR DIDACTIC PURPOSES. , 2021, , .		0
9	DEVELOPMENT OF A DIDACTIC TOOL FOR TEACHING AUTOMATION AND CONTROL THEORY BASED ON AN INDUSTRIAL TANK SYSTEM. , 2021, , .		0
10	Hardware Update through Digital TV Signals. Electronics (Switzerland), 2021, 10, 3072.	1.8	1
11	Audio Guide for Visually Impaired People Based on Combination of Stereo Vision and Musical Tones. Sensors, 2020, 20, 151.	2.1	3
12	A Review of Technologies and Techniques for Indoor Navigation Systems for the Visually Impaired. Sensors, 2020, 20, 3935.	2.1	61
13	Improving Prediction Accuracy in Neighborhood-Based Collaborative Filtering by Using Local Similarity. IEEE Access, 2020, 8, 142795-142809.	2.6	6
14	A Hybrid Indoor Positioning System Using a Linear Weighted Policy Learner and Iterative PDR. IEEE Access, 2020, 8, 43630-43656.	2.6	7
15	Commercial Devices-Based System Designed to Improve the Treatment Adherence of Hypertensive Patients. Sensors, 2019, 19, 4539.	2.1	13
16	Electric Powered Wheelchair Command by Information Fusion from Eye Tracking and BCI. , 2019, , .		13
17	A Digital Twin Architecture Based on the Industrial Internet of Things Technologies. , 2019, , .		44
18	Wearable System for Early Identification of Parkinson's Disease Symptoms Through the Evaluation of the Gait Training. , 2019, , .		2

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19	Evaluating the spasticity level during the rehabilitation process: a survey of traditional methods and a new trend. Procedia Computer Science, 2019, 160, 647-652.	1.2	4
20	The Raising Role of Virtual Reality in Accessibility Systems. Procedia Computer Science, 2019, 160, 671-677.	1.2	5
21	I-Jack: Wearable system for collection and evaluation physiological data. , 2018, , .		1
22	Training environment for electric powered wheelchairs using teleoperation through a head mounted display. , 2018, , .		5
23	Evaluating accessibility features designed for virtual reality context. , 2018, , .		15
24	Didactic Framework for Teaching C Programming Language: A Proposal Based on Cooperative and Competitive Learning Techniques. , 2018, , .		0
25	A Tool for the Automatic Selection of Mechatronics Remote Laboratories based on their Actual Effective Costs. , 2018, , .		2
26	MobiHealth: a System to Improve Medication Adherence in Hypertensive Patients. Procedia Computer Science, 2018, 141, 366-373.	1.2	3
27	Fall Detection System by Machine Learning Framework for Public Health. Procedia Computer Science, 2018, 141, 358-365.	1.2	24
28	Teleoperation Training Environment for New Users of Electric Powered Wheelchairs. Procedia Computer Science, 2018, 141, 343-350.	1.2	3
29	The use of a Mechatronic Systems Simulator in Engineering Courses. , 2018, , .		1
30	A Guidance System for Blind and Visually Impaired People via Hybrid Data Fusion. , 2018, , .		8
31	Teleoperation Training Environment for New Users of Electric Powered Wheelchairs Based on Multiple Driving Methods. IEEE Access, 2018, 6, 55099-55111.	2.6	6
32	Exploring Virtual Reality to Enable Deaf or Hard of Hearing Accessibility in Live Theaters: A Case Study. Lecture Notes in Computer Science, 2018, , 132-148.	1.0	13
33	Contextualizing and capturing individual user interactions in shared iTV environments. Multimedia Tools and Applications, 2017, 76, 8573-8595.	2.6	1
34	A Location Technique Based on Hybrid Data Fusion used to Increase the Indoor Location Accuracy. Procedia Computer Science, 2017, 113, 368-375.	1.2	4
35	Indoor visual localization of a wheelchair using Shi-Tomasi and KLT. , 2017, , .		3
36	Proposal of a simulator for evolutionary production systems. , 2017, , .		0

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37	UbMed: A ubiquitous system for monitoring medication adherence. , 2016, , .		5
38	Multimodal System for Training at Distance in a Virtual or Augmented Reality Environment for Users of Electric-Powered Wheelchairs. IFAC-PapersOnLine, 2016, 49, 156-160.	0.5	16
39	Indoor Navigation Assistant for Visually Impaired by Pedestrian Dead Reckoning and Position Estimative of Correction for Patterns Recognition. IFAC-PapersOnLine, 2016, 49, 167-170.	0.5	7
40	Intelligent System for Medication Management in Residential Environments. IFAC-PapersOnLine, 2016, 49, 171-174.	0.5	1
41	Remote Monitoring and Control of an Electric Powered Wheelchair in an Assisted Living Environment. IFAC-PapersOnLine, 2016, 49, 181-185.	0.5	7
42	Universal system for integrating commercial medical devices with standardized digital TV system. , 2016, , .		3
43	Virtual and augmented reality environment for remote training of wheelchairs users: Social, mobile, and wearable technologies applied to rehabilitation. , 2016, , .		7
44	EPSCore: A didactic open architecture of an Evolvable Production System. , 2016, , .		2
45	Hybrid Indoor Navigation as sistant for visually impaired people based on fusion of proximity method and pattern recognition algorithm. , 2016, , .		10
46	An experience report of inter-institutional engineering degree programs in the Amazon region. , 2016, , .		0
47	Blind user wearable audio assistance for indoor navigation based on visual markers and ultrasonic obstacle detection. , 2016, , .		33
48	Synchronising operations on productive systems modelled by timed event graphs. International Journal of Production Research, 2016, 54, 4403-4417.	4.9	2
49	Extending an intelligent medicine cabinet through the use of consumer electronic devices in order to increase the medication adherence. , 2015, , .		5
50	Hardware reconfiguration based on broadcasted digital TV signal. , 2015, , .		0
51	Teaching digital TV programming for engineering students: An industry oriented proposal. , 2015, , .		1
52	Architecture for Integrating Healthcare Services to the Brazilian Digital TV System. IEEE Latin America Transactions, 2015, 13, 241-249.	1.2	10
53	An intelligent medication system designed to improve the medication adherence. , 2015, , .		2
54	Dynamic integration of appliances into ZigBee home networks through web services. , 2015, , .		0

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55	A Computationally Efficient Method for Optimal Input-Flow Control of Timed-Event Graphs Ensuring a Given Production Rate. Journal of Control, Automation and Electrical Systems, 2015, 26, 348-360.	1.2	10
56	A Fast and Accurate Algorithm for Detecting and Tracking Moving Hand Gestures. Lecture Notes in Computational Vision and Biomechanics, 2015, , 335-353.	0.5	2
57	Architecture based on Distributed Webservices Integrated Through Triggers Associated with Managed Resource States. International Journal of Engineering Research & Technology, 2015, V4, .	0.2	0
58	A secondary screen architecture to accurately capture viewers' interactions in an iTV environment. , 2014, , .		0
59	Second Screen prototype for broadcasted digital TV users in ISDB-Tb standard. , 2014, , .		1
60	An educational and research cooperation between Brazil and Germany on industrial automation topics. , 2014, , .		2
61	FPN Attenuation by Reset-Drain Actuation in the Linear-Logarithmic Active Pixel Sensor. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 2825-2833.	3.5	12
62	BMCLua: Verification of Lua programs in digital TV interactive applications. , 2014, , .		2
63	Voice-activated system to remotely control industrial and building automation systems using cloud computing. , 2013, , .		3
64	Dynamic and automated product derivation for consumer electronics software applications. IEEE Transactions on Consumer Electronics, 2013, 59, 883-891.	3.0	0
65	4th EuroITV 2013 workshop on interactive digital TV in emergent economies -- thinking outside the TV box. , 2013, , .		0
66	A SMS-based application store for emerging market. , 2013, , .		0
67	Reusable hardware and software model for remote supervision of industrial Automation Systems using web technologies. , 2013, , .		6
68	A Mobile-Based System for Content Delivery over SMS. , 2013, , .		1
69	An intelligent medicine cabinet proposed to increase medication adherence. , 2013, , .		6
70	Control of Input Stream of Manufacturing Systems Modeled by Timed Event Graphs and Max-pus Algebra. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 478-485.	0.4	1
71	Strategies for Agile Software Testing Automation: An Industrial Experience. , 2012, , .		24
72	Software Test Automation practices in agile development environment: An industry experience report. , 2012, , .		23

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73	Designing an extension API for bridging Ginga iDTV applications and home services. IEEE Transactions on Consumer Electronics, 2012, 58, 1077-1085.	3.0	10
74	Gift young engineers: An extra-curricular initiative for updating computer and electrical engineering courses. , 2011, , .		3
75	An Infrastructure for Managing Residential Devices through the Declarative Environment of the Brazilian iDTV Middleware. IEEE Latin America Transactions, 2011, 9, 622-629.	1.2	1
76	iDTV Home Gateway convergence: an open software model integrating the Ginga middleware and the OSGi framework. Multimedia Systems, 2011, 17, 35-49.	3.0	4
77	Smart composition of reusable software components in mobile application product lines. , 2011, , .		11
78	Reinventing the engineering: An extracurricular program designed to attract new engineering students. , 2011, , .		1
79	SMS as interactive channel for portable digital TV receivers. , 2011, , .		0
80	A framework for hardware reconfiguration using the digital TV signal. , 2011, , .		1
81	Upgrading the Training of Undergraduate Students by Addressing Market Demands. , 2011, , .		1
82	Monitoring of hypertensive patients through conventional medical devices integrated to the Brazilian digital TV. , 2010, , .		3
83	Workshop on interactive digital TV in emergent countries. , 2010, , .		0
84	An experience to use robotics to improve Computer Science learning. , 2009, , .		5
85	A Convergence Proposal between the Brazilian Middleware for iDTV and Home Network Platforms. , 2009, , .		4
86	Convergence model between the IDTV Brazilian middleware and home networking software platforms. , 2009, , .		2
87	On the use of SCRUM for the management of practcal projects in graduate courses. , 2009, , .		12
88	Using the iDTV for Managing Services in the Ubiquitous Computing Environment. , 2009, , .		1
89	A home automation proposal built on the Ginga digital TV middleware and the OSGi framework. IEEE Transactions on Consumer Electronics, 2009, 55, 1254-1262.	3.0	21
90	A software model supporting the management of home network services through the brazilian iDTV. , 2009, , .		3

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91	A communication infrastructure between the Brazilian interactive digital TV and residential devices. , 2009, , .		3
92	An engineering educational application developed for the Brazilian digital TV system. , 2008, , .		1
93	An agile development methodology applied to embedded control software under stringent hardware constraints. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2008, 33, 1-10.	0.5	13
94	A Platform-Based Software Design Methodology for Embedded Control Systems: An Agile Toolkit. , 2008, , .		4
95	EMTV â€" A Component-Based DTV Middleware Extension for Educational Purposes. Lecture Notes in Computer Science, 2008, , 219-228.	1.0	3
96	An Educational Component-Based Digital TV Middleware for the Brazilianâ€™s System. Lecture Notes in Computer Science, 2008, , 41-51.	1.0	3
97	Teaching software engineering for embedded systems: an experience report from the manaus research and development pole. Proceedings - Frontiers in Education Conference, FIE, 2007, , .	0.0	6
98	Agile Development Methodology for Embedded Systems: A Platform-Based Design Approach. , 2007, , .		13
99	TXM. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2007, 32, 4.	0.5	6
100	UNIBRAL, an Educational and Research Cooperation between Brazil and Germany. , 2006, , .		2
101	Object-Oriented Technology. Lecture Notes in Computer Science, 2002, , .	1.0	0
102	The use of exponential weighting in the excitation dependent least squares estimator. , 0, , .		1
103	The use of the excitation dependent L.S. estimator in adaptive control. , 0, , .		0
104	A Germany-Brazil Experience Report on Teaching Software Engineering for Electrical Engineering Undergraduate Students. , 0, , .		9
105	Using the iDTV as the Center of an Ubiquitous Environment. , 0, , .		0
106	Desenvolvimento de um Processo de Software Aderente Ã ISO 9001:2000 Baseado no Processo Ãgil Scrum. , 0, , .		1
107	ExperiÃªncia em Processo de Teste Iterativo e Automatizado para Data Warehouse. , 0, , .		0
108	Using Brazilian Digital TV to Integrate Health Care Services Embedded in Medical Commercial Devices. , 0, , .		0

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109	AGILE SOFTWARE DEVELOPMENT METHODS FOR PROTOTYPING OF INNOVATIVE CONCEPTS IN MANUFACTURING AUTOMATION. , 0, , .		1
110	Metodologia para Desenvolvimento de Sistemas Evolutivos - MeDSE: PrincÃpios bÃ¡sicos. , 0, , .		0
111	MONITORING AND CONTROLLING OF INDUSTRIAL AUTOMATION SYSTEM CONSIDERING VAGUE INPUTS. , 0, , .		0
112	Sistema de solicitaÃ§Ã£o e monitoramento de estoque em tempo real utilizando Node-RED para ensino remoto. , 0, , .		0
113	Desenvolvimento de uma ferramenta didÃ¡tica para o ensino de automaÃ§Ã£o e controle de sistemas de tanques industriais. , 0, , .		0
114	Desenvolvimento de uma malha auxiliar ativa para supressÃ£o de oscilaÃ§Ãµes decorrentes da conexÃ£o com CPL em sistemas de distribuiÃ§Ã£o CC. , 0, , .		0
115	Virtual Setup - VirtualizaÃ§Ã£o automÃ¡tica de plantas industriais. , 0, , .		0
116	ComparaÃ§Ã£o de tÃ©cnicas de controle via LMI aplicadas em microrredes CC com CPL. , 0, , .		0