

J Machado

List of Publications by Year in descending order

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Version: 2024-02-01

173
papers

915
citations

567281

15
h-index

677142

22
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188
all docs

188
docs citations

188
times ranked

703
citing authors

#	ARTICLE	IF	CITATIONS
1	Decision Making Models for Sustainable Supply Chain in Industry 4.0: Opportunities and Future Research Agenda. Lecture Notes in Mechanical Engineering, 2023, , 175-185.	0.4	5
2	Metrology Information in Cyber-Physical Systems. Lecture Notes in Mechanical Engineering, 2022, , 285-292.	0.4	1
3	Modelling of Thermal Properties and Temperature Evolution of Cork Composites During Moulding Process: Model Development. Lecture Notes in Mechanical Engineering, 2022, , 274-284.	0.4	0
4	Production Scheduling of Semiconductor Wafer Fabrication Facilities Using Real-Time Combinatorial Dispatching Rule. Lecture Notes in Networks and Systems, 2022, , 78-90.	0.7	0
5	A Systematic Analysis of an Industrial Pickup and Placement Production System. EAI/Springer Innovations in Communication and Computing, 2022, , 479-491.	1.1	0
6	Influence of the Cutting Temperature on the Surface Layer Quality When Grinding Sintered Porous Materials. Lecture Notes in Mechanical Engineering, 2022, , 455-465.	0.4	1
7	Development of an Innovative Mechatronic Binder Machine. Sensors, 2022, 22, 741.	3.8	0
8	A Systematic Simulation-Based Multi-Criteria Decision-Making Approach for the Evaluation of Semi-Fully Flexible Machine System Process Parameters. Electronics (Switzerland), 2022, 11, 233.	3.1	6
9	Systems Engineering: Availability and Reliability. Applied Sciences (Switzerland), 2022, 12, 2504.	2.5	2
10	A Systematic Analysis of Printed Circuit Boards Bending during In-Circuit Tests. Machines, 2022, 10, 135.	2.2	3
11	Solving the problem of scheduling the production process based on heuristic algorithms. Journal of Universal Computer Science, 2022, 28, 292-310.	0.8	3
12	A generic interface and a framework designed for industrial metrology integration for the Internet of Things. Computers in Industry, 2022, 138, 103632.	9.9	17
13	A simulation strategy to determine the mechanical behaviour of cork-rubber composite pads for vibration isolation. Eksploatacja I Niezawodnosc, 2022, 24, 80-88.	2.0	2
14	Design of a Vision System for Needles™ Beds Positioning Inspection: An Industrial Application. Lecture Notes in Mechanical Engineering, 2022, , 138-153.	0.4	1
15	A Novel Route to Optimize Placement Equipment Kinematics by Coupling Capacitive Accelerometers. Sensors, 2022, 22, 3423.	3.8	0
16	Identification of the Critical Enablers for Perishable Food Supply Chain Using Deterministic Assessment Models. Applied Sciences (Switzerland), 2022, 12, 4503.	2.5	3
17	A new modelling approach for predicting process evolution of cork-rubber composites slabs vulcanization. Scientific Reports, 2022, 12, 8002.	3.3	3
18	The Behaviour of a Rod (Beam) Under the Influence of an External Power Load. Lecture Notes in Mechanical Engineering, 2022, , 13-22.	0.4	2

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19	Algorithmization of Functional-Modular Design of Packaging Equipment Using the Optimization Synthesis Principles. Lecture Notes in Mechanical Engineering, 2022, , 143-154.	0.4	1
20	Integrated process planning and scheduling in networked manufacturing systems for I4.0: a review and framework proposal. Wireless Networks, 2021, 27, 1587-1599.	3.0	34
21	An Increase in Wear Resistance Frictional Contact of Functional Surfaces for Plunger Pairs. Lecture Notes in Mechanical Engineering, 2021, , 84-94.	0.4	2
22	A General Overview of E-Maintenance and Possible Applications. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2021, , 196-218.	0.5	1
23	Application of artificial neural networks to predict mechanical behaviour of cork-rubber composites. Neural Computing and Applications, 2021, 33, 14069.	5.6	3
24	Hardware Passwords Manager Based on Biometric Authentication. Engineering Proceedings, 2021, 6, .	0.4	1
25	Statistical Reliability Assessment for Small Sample of Failure Data of Dumper Diesel Engines Based on Power Law Process and Maximum Likelihood Estimation. Applied Sciences (Switzerland), 2021, 11, 5387.	2.5	8
26	A Hybrid Multi-Objective Evolutionary Algorithm-Based Semantic Foundation for Sustainable Distributed Manufacturing Systems. Applied Sciences (Switzerland), 2021, 11, 6314.	2.5	10
27	Meta-Analysis and Forest Plots for Sustainability of Heavy Load Carrier Equipment Used in the Industrial Mining Environment. Sustainability, 2021, 13, 8672.	3.2	5
28	The Influence of Cork and Manufacturing Parameters on the Properties of Cork-Rubber Composites for Vibration Isolation Applications. Sustainability, 2021, 13, 11240.	3.2	5
29	Development of a System for Supporting Industrial Management. Lecture Notes in Mechanical Engineering, 2020, , 209-215.	0.4	4
30	Analysis of the Effect of Shape Factor on Cork-Rubber Composites under Small Strain Compression. Applied Sciences (Switzerland), 2020, 10, 7177.	2.5	7
31	Literature review on autonomous production control methods. Enterprise Information Systems, 2020, 14, 1219-1231.	4.7	16
32	Performance Evaluation of Different Mechanisms of Production Activity Control in the Context of Industry 4.0. Lecture Notes in Networks and Systems, 2020, , 82-103.	0.7	4
33	Development of cyber physical system based manufacturing system design for process optimization. IOP Conference Series: Materials Science and Engineering, 2020, 997, 012048.	0.6	10
34	Energy Efficient Network Manufacturing System Using Controlled Elitist Non-dominated Sorting Genetic Algorithm. Lecture Notes in Networks and Systems, 2020, , 188-206.	0.7	0
35	Simulation of Vertical and Horizontal Integration of Cyber-Physical Systems. , 2020, , .		2
36	Simulation of Temperature Evolution of Cork Composites During Moulding Process. International Journal of Simulation Modelling, 2020, 19, 583-594.	1.3	1

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37	Methods for Modeling Urban Road Traffic Using Timed Automata. Lecture Notes in Mechanical Engineering, 2020, , 97-107.	0.4	1
38	Production Planning and Setup Time Optimization: An Industrial Case Study. Lecture Notes in Mechanical Engineering, 2020, , 220-230.	0.4	1
39	RAPID PROTOTYPING BOOST IN RESEARCH AND DEVELOPMENT. International Journal of Mechatronics and Applied Mechanics, 2020, 1, .	0.2	0
40	Friction Properties of Polyoxymethylene (POM) Materials in Dry and Lubricated Conditions. Lecture Notes in Electrical Engineering, 2019, , 568-573.	0.4	0
41	Mechanical Design in Industry 4.0: Development of a Handling System Using a Modular Approach. Lecture Notes in Electrical Engineering, 2019, , 508-514.	0.4	3
42	Investigation of Copper and Zinc Contamination on the Work Piece Surface with WEDM. Lecture Notes in Electrical Engineering, 2019, , 608-615.	0.4	1
43	Impact of UTAUT Predictors on the Intention and Usage of Electronic Health Records and Telemedicine from the Perspective of Clinical Staffs. Lecture Notes in Electrical Engineering, 2019, , 172-177.	0.4	10
44	Gait stability of diabetic patients is altered with the rigid rocker shoes. Clinical Biomechanics, 2019, 69, 197-204.	1.2	3
45	Model Proposal to Evaluate the Quality of a Production Planning and Control Software in an Industrial Context. Lecture Notes in Mechanical Engineering, 2019, , 38-47.	0.4	1
46	Tools Implementation in Management of Continuous Improvement Processes. Lecture Notes in Mechanical Engineering, 2019, , 348-357.	0.4	1
47	A New Methodology for Use by a Single Caregiver to Bathe Bedridden Elderly Persons Using Advanced Mechatronic Systems. Healthcare (Switzerland), 2019, 7, 124.	2.0	5
48	Modeling of Dynamic Behavior of AGV systems. , 2019, , .		3
49	Influence of the Indentation Speed on Viscoelastic Behavior of the Human Finger. Lecture Notes in Electrical Engineering, 2019, , 143-150.	0.4	1
50	Mechatronic System for the Promotion of Physical Activity in People with Motor Limitations: First Insights. Lecture Notes in Electrical Engineering, 2019, , 267-274.	0.4	0
51	Mechatronic System Using a Straight-Line Motion Mechanism for AGV Application. Lecture Notes in Electrical Engineering, 2019, , 284-291.	0.4	0
52	Mechatronic System for the Promotion of Physical Activity in People with Motor Limitations. Lecture Notes in Networks and Systems, 2019, , 83-94.	0.7	0
53	A Methodology for Modelling Tugger Train Systems Using Modelica. , 2019, , .		0
54	Collaborative framework for virtual organisation synthesis based on a dynamic multi-criteria decision model. International Journal of Computer Integrated Manufacturing, 2018, 31, 857-868.	4.6	33

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55	A design strategy for obtaining reliable controllers for critical mechanical systems. <i>Mechatronics</i> , 2018, 54, 186-202.	3.3	1
56	Production Flow Improvement in a Textile Industry. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 224-233.	0.6	4
57	A Text Mining Based Supervised Learning Algorithm for Classification of Manufacturing Suppliers. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 236-244.	0.6	1
58	Automatic Assist in Estimating the Production Capacity of Final Machining for Cast Iron Machine Parts. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 254-263.	0.6	2
59	A Methodology of Improvement of Manufacturing Productivity Through Increasing Operational Efficiency of the Production Process. <i>Lecture Notes in Mechanical Engineering</i> , 2018, , 23-32.	0.4	38
60	Simulation of cyber physical systems behaviour using timed plant models. <i>Mechatronics</i> , 2018, 54, 175-185.	3.3	19
61	Modelling cyber-physical systems: some issues and directions. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 444, 042007.	0.6	3
62	Dynamic simulation of the CAD model in SimMechanics with multiple uses. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2018, 26, .	1.4	1
63	Mechanical Design of a Standing Frame adapted for Children with mental deficiency. <i>Procedia CIRP</i> , 2018, 70, 278-283.	1.9	0
64	An Innovative Approach for Modelling Urban Road Traffic Using Timed Automata and Formal Methods. <i>Journal of Advanced Transportation</i> , 2018, 2018, 1-15.	1.7	6
65	Modelling and Simulation of a Straight Line Motion Mechanism for Industrial Application. , 2018, , .		4
66	Computer vision techniques for detecting yarn defects. , 2018, , 123-145.		6
67	A Collaborative Multiplicative Holt-Winters Forecasting Approach with Dynamic Fuzzy-Level Component. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 530.	2.5	16
68	Measuring the Punching Profile of a Punch And Bind Machine. <i>Lecture Notes in Mechanical Engineering</i> , 2018, , 727-732.	0.4	1
69	Intelligent Platform for Supervision and Production Activity Control in Real Time. <i>Lecture Notes in Mechanical Engineering</i> , 2018, , 151-159.	0.4	3
70	Blood type classification using computer vision and machine learning. <i>Neural Computing and Applications</i> , 2017, 28, 2029-2040.	5.6	12
71	Using timed automata for modeling, simulating and verifying networked systems controller's specifications. <i>Neural Computing and Applications</i> , 2017, 28, 1031-1041.	5.6	10
72	Development of an automatic system for the measurement of force and stroke parameters of car radio keypads. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017, 100, 84-92.	5.0	0

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73	E-ducAtion: Multidisciplinary platform to support the teaching/learning process in Portuguese 1st cycle schools. , 2017, , .		1
74	The Tool Supporting Decision Making Process in Area of Job-Shop Scheduling. Advances in Intelligent Systems and Computing, 2017, , 490-498.	0.6	25
75	Cycle Time Reduction in Deck Roller Assembly Production Unit with Value Stream Mapping Analysis. Advances in Intelligent Systems and Computing, 2017, , 509-518.	0.6	17
76	A Formal Methodology for Accomplishing IEC 61850 Real-Time Communication Requirements. IEEE Transactions on Industrial Electronics, 2017, 64, 6582-6590.	7.9	33
77	Formal verification considering a systematic modeling approach for function blocks. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 4107-4113.	1.6	2
78	Comparative Simulation Study of Production Scheduling in the Hybrid and the Parallel Flow. Management and Production Engineering Review, 2017, 8, 69-80.	1.4	14
79	Deaf people feeling music rhythm by using a sensing and actuating device. Sensors and Actuators A: Physical, 2017, 267, 431-442.	4.1	8
80	Virtual Reality Based Ecodesign. Ecoproduction, 2017, , 119-135.	0.8	11
81	Formal Analysis of an Urban Road Traffic Model. Lecture Notes in Electrical Engineering, 2017, , 533-544.	0.4	2
82	Determination of human blood type using image processing techniques. Measurement: Journal of the International Measurement Confederation, 2017, 97, 165-173.	5.0	9
83	Behavior of the Elastomers Used in Prehension Systems for Small Cylindrical Objects. Lecture Notes in Electrical Engineering, 2017, , 495-505.	0.4	0
84	SmartBath: A New Bathing Concept for Disabled People. Lecture Notes in Electrical Engineering, 2017, , 461-470.	0.4	0
85	A Simulation Platform Prototype for Evaluating Alternative Scenarios of Members Integration in Virtual Organizations. Lecture Notes in Electrical Engineering, 2017, , 521-531.	0.4	0
86	Brain computer interface systems using non-invasive electroencephalogram signal: A literature review. , 2017, , .		16
87	Development of an Innovative Coupling System for Industrial Vehicles: An AGV Oriented Approach. , 2017, , .		1
88	Methods time measurement on the optimization of a productive process: A case study. , 2017, , .		3
89	Smartbath: Water temperature control system. , 2017, , .		0
90	Job shop schedules analysis in the context of industry 4.0. , 2017, , .		16

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91	Rocker outsole shoes and margin of stability during walking: A preliminary study. , 2017, , .		1
92	Innovative coupling system for industrial vehicles: An AGV oriented approach and development a new coupling system for improving trailer trajectory accuracy of AGV vehicles. , 2017, , .		1
93	Bath-Ambienceâ€”A Mechatronic System for Assisting the Caregivers of Bedridden People. Sensors, 2017, 17, 1156.	3.8	10
94	Sensors and Actuators on Determining Parameters for Being Considered in Selection of Elastomers for Biomimetic Hands. Sensors, 2017, 17, 1190.	3.8	2
95	Telefacturing Based Distributed Manufacturing Environment for Optimal Manufacturing Service by Enhancing the Interoperability in the Hubs. Journal of Engineering (United States), 2017, 2017, 1-15.	1.0	4
96	Acoustic simulation of a steering sensor for geometric design optimization. , 2017, , .		0
97	Optimized punches geometry for paper punching systems: An industrial approach. , 2017, , .		1
98	Design, implementation and preliminary tests of E-ducation platform. , 2017, , .		0
99	Velocity and Brightness Control in Prototype for Blood Type Determination. Lecture Notes in Electrical Engineering, 2017, , 311-321.	0.4	0
100	Development of a Medical Care Terminal for Efficient Monitoring of Bedridden Subjects. Journal of Engineering (United States), 2016, 2016, 1-9.	1.0	4
101	Ergonomics and Usability in the Development of a Portable Virtual Gaming Device Applied in Physiotherapy. Transactions of Fadena, 2016, 40, 95-106.	0.6	1
102	The Conceptual Design of a Mechatronic System to Handle Bedridden Elderly Individuals. Sensors, 2016, 16, 725.	3.8	5
103	Innovative Mechatronic Approach to Redesign a Punch and Bind Machine. , 2016, , .		1
104	A Faster and More Secure Human Blood Type Determining Productâ€”Concept Design. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.7	1
105	Mechatronic system for performing blood pre-transfusion tests. Sensors and Actuators A: Physical, 2016, 246, 81-90.	4.1	2
106	Issues to be considered on obtaining plant models for formal verification purposes. IOP Conference Series: Materials Science and Engineering, 2016, 147, 012050.	0.6	2
107	Prototype Implementation and Automatic Determination of Pre-Transfusion Tests Based on Image Processing. , 2016, , 331-345.		0
108	Development and Optimization of a Paper Punching System. , 2015, , .		3

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109	CAD Information Handling for Obtaining Dependable Manufacturing Systems. , 2015, , .		0
110	Design of a Conceptual Bed Mattress for Reducing Pressure on Bony Prominences. , 2015, , .		1
111	Cloud-based framework for advanced maintenance tasks. , 2015, , .		3
112	Mechanical simulation model of the systemic circulation. Measurement: Journal of the International Measurement Confederation, 2015, 66, 212-221.	5.0	2
113	Yarn features extraction using image processing and computer vision “ A study with cotton and polyester yarns. Measurement: Journal of the International Measurement Confederation, 2015, 68, 1-15.	5.0	30
114	Prototype for determination of pre-transfusion tests based on image processing techniques. , 2015, , .		3
115	Preface of the “Symposium on dependable mechatronic systems” AIP Conference Proceedings, 2015, , .	0.4	0
116	QR codes and Java applied to physiological data acquisition in biomedical engineering education. AIP Conference Proceedings, 2015, , .	0.4	0
117	Industrial controlling process using the remote industrial automation trainer PAIR. AIP Conference Proceedings, 2015, , .	0.4	2
118	Design and development of a portable projection and natural interface device for virtual games applied to physiotherapy. AIP Conference Proceedings, 2015, , .	0.4	0
119	Shortening changeover time — An industrial study. , 2015, , .		25
120	Mechatronic system for assistance on bath of bedridden elderly people. , 2015, , .		6
121	An Overview of Industrial Communication Networks. Mechanisms and Machine Science, 2015, , 933-940.	0.5	27
122	Conceptual Design of a Mechatronic System for Supporting Basic Quality of Life of Bedridden Elderly People. Applied Mechanics and Materials, 2014, 658, 483-488.	0.2	1
123	Mechatronic System for ABO Human Blood Typing. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	1
124	System for Assistance on Bath of Bedridden Elderly People. , 2014, , .		3
125	Remote physiological signals acquisition: Didactic experiments. , 2014, , .		1
126	Modelica modeling language as a tool on control engineering education: Simulation of a two-tank system. , 2014, , .		1

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127	E-health decision support system for differential diagnosis. , 2014, , .		3
128	PAIR: The Remote Industrial Automation Trainer. , 2014, , .		3
129	Modelling and Design of a Tridimensional Compliant Leg for Bioloid Quadruped. Applied Mathematics and Information Sciences, 2014, 8, 1501-1507.	0.5	1
130	Development of Dependable Controllers in the Context of Machines Design. Lecture Notes in Mechanical Engineering, 2014, , 125-131.	0.4	4
131	Assessing Remote Physiological Signals Acquisition Experiments. , 2014, , .		0
132	Improved biomedical device for spasticity quantification. , 2013, , .		3
133	Remote physiological systems (RePhyS) laboratory: A didactic learning environment. , 2013, , .		0
134	Issues in remote laboratory developments for biomedical engineering education. , 2013, , .		6
135	Mechatronic medical device for wrist rehabilitation. , 2013, , .		0
136	Students' perspectives on remote physiological signals acquisition experiments. , 2013, , .		3
137	A multidisciplinary experience in Remote Physiological Systems laboratory. , 2013, , .		0
138	Remote physiological data acquisition: From the human body to electromechanical simulators. , 2013, , .		2
139	HiL simulation workbench for testing and validating PLC programs. , 2013, , .		5
140	A simulation platform for automation teaching. , 2013, , .		1
141	Modeling and formal analysis of urban road traffic. , 2013, , .		1
142	Development of controller strategies for a robotized filament winding equipment. , 2013, , .		2
143	Reinterpreting the cardiovascular system as a mechanical model. , 2013, , .		0
144	Using ICT techniques for improving mechatronic systems' dependability. , 2013, , .		0

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145	A Specification Patterns System for Discrete Event Systems Analysis. International Journal of Advanced Robotic Systems, 2013, 10, 315.	2.1	7
146	Development, Test and Validation of a Mechatronic Device for Spasticity Quantification. International Journal of Advanced Robotic Systems, 2013, 10, 259.	2.1	2
147	Preface of the "Symposium on dependable mechatronic systems"., 2013, , .		0
148	RePhyS: A Multidisciplinary Experience in Remote Physiological Systems Laboratory. International Journal of Online and Biomedical Engineering, 2013, 9, 21.	1.4	21
149	Web-Assisted Laboratory for Control Education: Remote and Virtual Environments. Communications in Computer and Information Science, 2012, , 62-72.	0.5	19
150	Obtaining Plant Models for Formal Verification Tasks from 3D CAD Models: Which is the Best Approach?. Advanced Materials Research, 2012, 630, 283-290.	0.3	5
151	Design and modelling of a 3D compliant leg for Bioloid. , 2012, , .		0
152	Evaluation of the mechanical system to produce file cutting edges in a industrial machine: Theoretical and experimental approaches. , 2012, , .		0
153	A systematized approach for obtaining a dependable structured specification for an industrial automation system. , 2012, , .		0
154	Design of a mechatronic system for human blood typing in emergency situations. , 2012, , .		4
155	Safe controllers design for industrial automation systems. Computers and Industrial Engineering, 2011, 60, 635-653.	6.3	22
156	Using advanced simulation techniques to improve industrial controller's dependability. , 2011, , .		2
157	Modeling and simulating the controller behavior of an Automated People Mover using IEC 61850 communication requirements. , 2011, , .		13
158	Biomedical device for spasticity quantification based on the velocity dependence of the Stretch Reflex threshold. , 2011, , .		3
159	A mechatronic device for spasticity quantification. , 2011, , .		5
160	Industrial Network Platform for Monitoring and Control of Automated Manufacturing Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 168-173.	0.4	3
161	Simulation Aspects on the Design of Automated Manufacturing Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 308-313.	0.4	0
162	From SFC Specification to C Programming Language on the Context of Aerospace Systems Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 46-51.	0.4	1

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163	Handling incomplete information in an evolutionary environment. , 2010, , .		1
164	Hybrid plant modeling for discrete controllers analysis: A case study. , 2010, , .		0
165	The role of Superior Education Institutions on post-secondary (non superior) education. , 2010, , .		0
166	Pattern-based Analysis of Automated Production Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 972-977.	0.4	18
167	Property Patterns for the Formal Verification of Automated Production Systemsstar;. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 5107-5112.	0.4	11
168	A NEW PLANT MODELLING APPROACH FOR FORMAL VERIFICATION PURPOSES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 167-172.	0.4	0
169	A generic approach to build plant models for DES verification purposes. , 2006, , .		12
170	LOGIC CONTROLLERS DEPENDABILITY VERIFICATION USING A PLANT MODEL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 37-42.	0.4	23
171	Modelling and implementing the control of automated production systems using statecharts and PLC programming languages. , 2001, , .		3
172	Modeling and Simulation of Physical Parameters of Human Respiratory System. Applied Mechanics and Materials, 0, 658, 447-452.	0.2	0
173	Design and Development of an Industrial Network Laboratory. International Journal of Emerging Technologies in Learning, 0, 6, 21-26.	1.3	15