

J Machado

List of Publications by Year in descending order

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172
papers

915
citations

566801

15
h-index

676716

22
g-index

188
all docs

188
docs citations

188
times ranked

703
citing authors

#	ARTICLE	IF	CITATIONS
1	A Methodology of Improvement of Manufacturing Productivity Through Increasing Operational Efficiency of the Production Process. Lecture Notes in Mechanical Engineering, 2018, , 23-32.	0.3	38
2	Integrated process planning and scheduling in networked manufacturing systems for I4.0: a review and framework proposal. Wireless Networks, 2021, 27, 1587-1599.	2.0	34
3	A Formal Methodology for Accomplishing IEC 61850 Real-Time Communication Requirements. IEEE Transactions on Industrial Electronics, 2017, 64, 6582-6590.	5.2	33
4	Collaborative framework for virtual organisation synthesis based on a dynamic multi-criteria decision model. International Journal of Computer Integrated Manufacturing, 2018, 31, 857-868.	2.9	33
5	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.	2.5	30
6	An Overview of Industrial Communication Networks. Mechanisms and Machine Science, 2015, , 933-940.	0.3	27
7	Shortening changeover time — An industrial study. , 2015, , .		25
8	The Tool Supporting Decision Making Process in Area of Job-Shop Scheduling. Advances in Intelligent Systems and Computing, 2017, , 490-498.	0.5	25
9	LOGIC CONTROLLERS DEPENDABILITY VERIFICATION USING A PLANT MODEL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 37-42.	0.4	23
10	Safe controllers design for industrial automation systems. Computers and Industrial Engineering, 2011, 60, 635-653.	3.4	22
11	RePhyS: A Multidisciplinary Experience in Remote Physiological Systems Laboratory. International Journal of Online and Biomedical Engineering, 2013, 9, 21.	0.9	21
12	Web-Assisted Laboratory for Control Education: Remote and Virtual Environments. Communications in Computer and Information Science, 2012, , 62-72.	0.4	19
13	Simulation of cyber physical systems behaviour using timed plant models. Mechatronics, 2018, 54, 175-185.	2.0	19
14	Pattern-based Analysis of Automated Production Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 972-977.	0.4	18
15	Cycle Time Reduction in Deck Roller Assembly Production Unit with Value Stream Mapping Analysis. Advances in Intelligent Systems and Computing, 2017, , 509-518.	0.5	17
16	A generic interface and a framework designed for industrial metrology integration for the Internet of Things. Computers in Industry, 2022, 138, 103632.	5.7	17
17	Brain computer interface systems using non-invasive electroencephalogram signal: A literature review. , 2017, , .		16
18	Job shop schedules analysis in the context of industry 4.0. , 2017, , .		16

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19	A Collaborative Multiplicative Holt-Winters Forecasting Approach with Dynamic Fuzzy-Level Component. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 530.	1.3	16
20	Literature review on autonomous production control methods. <i>Enterprise Information Systems</i> , 2020, 14, 1219-1231.	3.3	16
21	Design and Development of an Industrial Network Laboratory. <i>International Journal of Emerging Technologies in Learning</i> , 0, 6, 21-26.	0.8	15
22	Comparative Simulation Study of Production Scheduling in the Hybrid and the Parallel Flow. <i>Management and Production Engineering Review</i> , 2017, 8, 69-80.	1.4	14
23	Modeling and simulating the controller behavior of an Automated People Mover using IEC 61850 communication requirements. , 2011, , .		13
24	A generic approach to build plant models for DES verification purposes. , 2006, , .		12
25	Blood type classification using computer vision and machine learning. <i>Neural Computing and Applications</i> , 2017, 28, 2029-2040.	3.2	12
26	Property Patterns for the Formal Verification of Automated Production Systemsstar;. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008, 41, 5107-5112.	0.4	11
27	Virtual Reality Based Ecodesign. <i>Ecoproduction</i> , 2017, , 119-135.	0.8	11
28	Using timed automata for modeling, simulating and verifying networked systems controllerâ€™s specifications. <i>Neural Computing and Applications</i> , 2017, 28, 1031-1041.	3.2	10
29	Bath-Ambienceâ€™A Mechatronic System for Assisting the Caregivers of Bedridden People. <i>Sensors</i> , 2017, 17, 1156.	2.1	10
30	Impact of UTAUT Predictors on the Intention and Usage of Electronic Health Records and Telemedicine from the Perspective of Clinical Staffs. <i>Lecture Notes in Electrical Engineering</i> , 2019, , 172-177.	0.3	10
31	A Hybrid Multi-Objective Evolutionary Algorithm-Based Semantic Foundation for Sustainable Distributed Manufacturing Systems. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6314.	1.3	10
32	Development of cyber physical system based manufacturing system design for process optimization. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 997, 012048.	0.3	10
33	Determination of human blood type using image processing techniques. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017, 97, 165-173.	2.5	9
34	Deaf people feeling music rhythm by using a sensing and actuating device. <i>Sensors and Actuators A: Physical</i> , 2017, 267, 431-442.	2.0	8
35	Statistical Reliability Assessment for Small Sample of Failure Data of Dumper Diesel Engines Based on Power Law Process and Maximum Likelihood Estimation. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5387.	1.3	8
36	A Specification Patterns System for Discrete Event Systems Analysis. <i>International Journal of Advanced Robotic Systems</i> , 2013, 10, 315.	1.3	7

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37	Analysis of the Effect of Shape Factor on Cork–Rubber Composites under Small Strain Compression. Applied Sciences (Switzerland), 2020, 10, 7177.	1.3	7
38	Issues in remote laboratory developments for biomedical engineering education. , 2013, , .		6
39	Mechatronic system for assistance on bath of bedridden elderly people. , 2015, , .		6
40	An Innovative Approach for Modelling Urban Road Traffic Using Timed Automata and Formal Methods. Journal of Advanced Transportation, 2018, 2018, 1-15.	0.9	6
41	Computer vision techniques for detecting yarn defects. , 2018, , 123-145.		6
42	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.	1.8	6
43	A mechatronic device for spasticity quantification. , 2011, , .		5
44	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
45	HiL simulation workbench for testing and validating PLC programs. , 2013, , .		5
46	The Conceptual Design of a Mechatronic System to Handle Bedridden Elderly Individuals. Sensors, 2016, 16, 725.	2.1	5
47	A New Methodology for Use by a Single Caregiver to Bathe Bedridden Elderly Persons Using Advanced Mechatronic Systems. Healthcare (Switzerland), 2019, 7, 124.	1.0	5
48	Meta-Analysis and Forest Plots for Sustainability of Heavy Load Carrier Equipment Used in the Industrial Mining Environment. Sustainability, 2021, 13, 8672.	1.6	5
49	The Influence of Cork and Manufacturing Parameters on the Properties of Cork–Rubber Composites for Vibration Isolation Applications. Sustainability, 2021, 13, 11240.	1.6	5
50	Decision Making Models for Sustainable Supply Chain in Industry 4.0: Opportunities and Future Research Agenda. Lecture Notes in Mechanical Engineering, 2023, , 175-185.	0.3	5
51	Design of a mechatronic system for human blood typing in emergency situations. , 2012, , .		4
52	Development of a Medical Care Terminal for Efficient Monitoring of Bedridden Subjects. Journal of Engineering (United States), 2016, 2016, 1-9.	0.5	4
53	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.	0.5	4
54	Production Flow Improvement in a Textile Industry. Advances in Intelligent Systems and Computing, 2018, , 224-233.	0.5	4

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55	Modelling and Simulation of a Straight Line Motion Mechanism for Industrial Application. , 2018, , .		4
56	Development of a System for Supporting Industrial Management. Lecture Notes in Mechanical Engineering, 2020, , 209-215.	0.3	4
57	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.	0.5	4
58	Development of Dependable Controllers in the Context of Machines Design. Lecture Notes in Mechanical Engineering, 2014, , 125-131.	0.3	4
59	Modelling and implementing the control of automated production systems using statecharts and PLC programming languages. , 2001, , .		3
60	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
61	Biomedical device for spasticity quantification based on the velocity dependence of the Stretch Reflex threshold. , 2011, , .		3
62	Improved biomedical device for spasticity quantification. , 2013, , .		3
63	Students' perspectives on remote physiological signals acquisition experiments. , 2013, , .		3
64	System for Assistance on Bath of Bedridden Elderly People. , 2014, , .		3
65	E-health decision support system for differential diagnosis. , 2014, , .		3
66	PAIR: The Remote Industrial Automation Trainer. , 2014, , .		3
67	Development and Optimization of a Paper Punching System. , 2015, , .		3
68	Cloud-based framework for advanced maintenance tasks. , 2015, , .		3
69	Prototype for determination of pre-transfusion tests based on image processing techniques. , 2015, , .		3
70	Methods time measurement on the optimization of a productive process: A case study. , 2017, , .		3
71	Modelling cyber-physical systems: some issues and directions. IOP Conference Series: Materials Science and Engineering, 2018, 444, 042007.	0.3	3
72	Mechanical Design in Industry 4.0: Development of a Handling System Using a Modular Approach. Lecture Notes in Electrical Engineering, 2019, , 508-514.	0.3	3

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73	Gait stability of diabetic patients is altered with the rigid rocker shoes. <i>Clinical Biomechanics</i> , 2019, 69, 197-204.	0.5	3
74	Modeling of Dynamic Behavior of AGV systems. , 2019, , .		3
75	Application of artificial neural networks to predict mechanical behaviour of cork-rubber composites. <i>Neural Computing and Applications</i> , 2021, 33, 14069.	3.2	3
76	Intelligent Platform for Supervision and Production Activity Control in Real Time. <i>Lecture Notes in Mechanical Engineering</i> , 2018, , 151-159.	0.3	3
77	A Systematic Analysis of Printed Circuit Boards Bending during In-Circuit Tests. <i>Machines</i> , 2022, 10, 135.	1.2	3
78	Solving the problem of scheduling the production process based on heuristic algorithms. <i>Journal of Universal Computer Science</i> , 2022, 28, 292-310.	0.6	3
79	Identification of the Critical Enablers for Perishable Food Supply Chain Using Deterministic Assessment Models. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4503.	1.3	3
80	A new modelling approach for predicting process evolution of cork-rubber composites slabs vulcanization. <i>Scientific Reports</i> , 2022, 12, 8002.	1.6	3
81	Using advanced simulation techniques to improve industrial controller's dependability. , 2011, , .		2
82	Remote physiological data acquisition: From the human body to electromechanical simulators. , 2013, , .		2
83	Development of controller strategies for a robotized filament winding equipment. , 2013, , .		2
84	Development, Test and Validation of a Mechatronic Device for Spasticity Quantification. <i>International Journal of Advanced Robotic Systems</i> , 2013, 10, 259.	1.3	2
85	Mechanical simulation model of the systemic circulation. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015, 66, 212-221.	2.5	2
86	Industrial controlling process using the remote industrial automation trainer PAIR. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	2
87	Mechatronic system for performing blood pre-transfusion tests. <i>Sensors and Actuators A: Physical</i> , 2016, 246, 81-90.	2.0	2
88	Formal verification considering a systematic modeling approach for function blocks. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017, 39, 4107-4113.	0.8	2
89	Formal Analysis of an Urban Road Traffic Model. <i>Lecture Notes in Electrical Engineering</i> , 2017, , 533-544.	0.3	2
90	Sensors and Actuators on Determining Parameters for Being Considered in Selection of Elastomers for Biomimetic Hands. <i>Sensors</i> , 2017, 17, 1190.	2.1	2

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91	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.	0.5	2
92	An Increase in Wear Resistance Frictional Contact of Functional Surfaces for Plunger Pairs. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 84-94.	0.3	2
93	Issues to be considered on obtaining plant models for formal verification purposes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 147, 012050.	0.3	2
94	Simulation of Vertical and Horizontal Integration of Cyber-Physical Systems. , 2020, , .		2
95	Systems Engineering: Availability and Reliability. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2504.	1.3	2
96	A simulation strategy to determine the mechanical behaviour of cork-rubber composite pads for vibration isolation. <i>Eksploatacja I Niezawodnosc</i> , 2022, 24, 80-88.	1.1	2
97	The Behaviour of a Rod (Beam) Under the Influence of an External Power Load. <i>Lecture Notes in Mechanical Engineering</i> , 2022, , 13-22.	0.3	2
98	From SFC Specification to C Programming Language on the Context of Aerospace Systems Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010, 43, 46-51.	0.4	1
99	Handling incomplete information in an evolutionary environment. , 2010, , .		1
100	A simulation platform for automation teaching. , 2013, , .		1
101	Modeling and formal analysis of urban road traffic. , 2013, , .		1
102	Conceptual Design of a Mechatronic System for Supporting Basic Quality of Life of Bedridden Elderly People. <i>Applied Mechanics and Materials</i> , 2014, 658, 483-488.	0.2	1
103	Mechatronic System for ABO Human Blood Typing. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2014, 8, .	0.4	1
104	Remote physiological signals acquisition: Didactic experiments. , 2014, , .		1
105	Modelica modeling language as a tool on control engineering education: Simulation of a two-tank system. , 2014, , .		1
106	Design of a Conceptual Bed Mattress for Reducing Pressure on Bony Prominences. , 2015, , .		1
107	Ergonomics and Usability in the Development of a Portable Virtual Gaming Device Applied in Physiotherapy. <i>Transactions of Famena</i> , 2016, 40, 95-106.	0.3	1
108	Innovative Mechatronic Approach to Redesign a Punch and Bind Machine. , 2016, , .		1

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109	A Faster and More Secure Human Blood Type Determining Productâ€™ Concept Design. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.4	1
110	E-ducAtion: Multidisciplinary platform to support the teaching/learning process in Portuguese 1st cycle schools. , 2017, , .		1
111	Development of an Innovative Coupling System for Industrial Vehicles: An AGV Oriented Approach. , 2017, , .		1
112	Rocker outsole shoes and margin of stability during walking: A preliminary study. , 2017, , .		1
113	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
114	Optimized punches geometry for paper punching systems: An industrial approach. , 2017, , .		1
115	A design strategy for obtaining reliable controllers for critical mechanical systems. Mechatronics, 2018, 54, 186-202.	2.0	1
116	A Text Mining Based Supervised Learning Algorithm for Classification of Manufacturing Suppliers. Advances in Intelligent Systems and Computing, 2018, , 236-244.	0.5	1
117	Dynamic simulation of the CAD model in SimMechanics with multiple uses. Turkish Journal of Electrical Engineering and Computer Sciences, 2018, 26, .	0.9	1
118	Investigation of Copper and Zinc Contamination on the Work Piece Surface with WEDM. Lecture Notes in Electrical Engineering, 2019, , 608-615.	0.3	1
119	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.	0.3	1
120	Tools Implementation in Management of Continuous Improvement Processes. Lecture Notes in Mechanical Engineering, 2019, , 348-357.	0.3	1
121	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
122	Hardware Passwords Manager Based on Biometric Authentication. Engineering Proceedings, 2021, 6, .	0.4	1
123	Metrology Information in Cyber-Physical Systems. Lecture Notes in Mechanical Engineering, 2022, , 285-292.	0.3	1
124	Modelling and Design of a Tridimensional Compliant Leg for Bioloid Quadruped. Applied Mathematics and Information Sciences, 2014, 8, 1501-1507.	0.7	1
125	Measuring the Punching Profile of a Punch And Bind Machine. Lecture Notes in Mechanical Engineering, 2018, , 727-732.	0.3	1
126	Influence of the Indentation Speed on Viscoelastic Behavior of the Human Finger. Lecture Notes in Electrical Engineering, 2019, , 143-150.	0.3	1

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127	Simulation of Temperature Evolution of Cork Composites During Moulding Process. International Journal of Simulation Modelling, 2020, 19, 583-594.	0.6	1
128	Methods for Modeling Urban Road Traffic Using Timed Automata. Lecture Notes in Mechanical Engineering, 2020, , 97-107.	0.3	1
129	Production Planning and Setup Time Optimization: An Industrial Case Study. Lecture Notes in Mechanical Engineering, 2020, , 220-230.	0.3	1
130	Influence of the Cutting Temperature on the Surface Layer Quality When Grinding Sintered Porous Materials. Lecture Notes in Mechanical Engineering, 2022, , 455-465.	0.3	1
131	Design of a Vision System for Needles™ Beds Positioning Inspection: An Industrial Application. Lecture Notes in Mechanical Engineering, 2022, , 138-153.	0.3	1
132	Algorithmization of Functional-Modular Design of Packaging Equipment Using the Optimization Synthesis Principles. Lecture Notes in Mechanical Engineering, 2022, , 143-154.	0.3	1
133	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
134	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
135	Hybrid plant modeling for discrete controllers analysis: A case study. , 2010, , .		0
136	The role of Superior Education Institutions on post-secondary (non superior) education. , 2010, , .		0
137	Design and modelling of a 3D compliant leg for Bioloid. , 2012, , .		0
138	Evaluation of the mechanical system to produce file cutting edges in a industrial machine: Theoretical and experimental approaches. , 2012, , .		0
139	A systematized approach for obtaining a dependable structured specification for an industrial automation system. , 2012, , .		0
140	Remote physiological systems (RePhyS) laboratory: A didactic learning environment. , 2013, , .		0
141	Mechatronic medical device for wrist rehabilitation. , 2013, , .		0
142	A multidisciplinary experience in Remote Physiological Systems laboratory. , 2013, , .		0
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	Preface of the "Symposium on dependable mechatronic systems". , 2013, , .		0
146	Modeling and Simulation of Physical Parameters of Human Respiratory System. Applied Mechanics and Materials, 0, 658, 447-452.	0.2	0
147	CAD Information Handling for Obtaining Dependable Manufacturing Systems. , 2015, , .		0
148	Preface of the "Symposium on dependable mechatronic systems" AIP Conference Proceedings, 2015, , .	0.3	0
149	QR codes and Java applied to physiological data acquisition in biomedical engineering education. AIP Conference Proceedings, 2015, , .	0.3	0
150	Design and development of a portable projection and natural interface device for virtual games applied to physiotherapy. AIP Conference Proceedings, 2015, , .	0.3	0
151	Development of an automatic system for the measurement of force and stroke parameters of car radio keypads. Measurement: Journal of the International Measurement Confederation, 2017, 100, 84-92.	2.5	0
152	Behavior of the Elastomers Used in Prehension Systems for Small Cylindrical Objects. Lecture Notes in Electrical Engineering, 2017, , 495-505.	0.3	0
153	SmartBath: A New Bathing Concept for Disabled People. Lecture Notes in Electrical Engineering, 2017, , 461-470.	0.3	0
154	A Simulation Platform Prototype for Evaluating Alternative Scenarios of Members Integration in Virtual Organizations. Lecture Notes in Electrical Engineering, 2017, , 521-531.	0.3	0
155	Smartbath: Water temperature control system. , 2017, , .		0
156	Acoustic simulation of a steering sensor for geometric design optimization. , 2017, , .		0
157	Design, implementation and preliminary tests of E-ducation platform. , 2017, , .		0
158	Mechanical Design of a Standing Frame adapted for Children with mental deficiency. Procedia CIRP, 2018, 70, 278-283.	1.0	0
159	Friction Properties of Polyoxymethylene (POM) Materials in Dry and Lubricated Conditions. Lecture Notes in Electrical Engineering, 2019, , 568-573.	0.3	0
160	Modelling of Thermal Properties and Temperature Evolution of Cork Composites During Moulding Process: Model Development. Lecture Notes in Mechanical Engineering, 2022, , 274-284.	0.3	0
161	Production Scheduling of Semiconductor Wafer Fabrication Facilities Using Real-Time Combinatorial Dispatching Rule. Lecture Notes in Networks and Systems, 2022, , 78-90.	0.5	0
162	A Systematic Analysis of an Industrial Pickup and Placement Production System. EAI/Springer Innovations in Communication and Computing, 2022, , 479-491.	0.9	0

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163	Assessing Remote Physiological Signals Acquisition Experiments. , 2014, , .		0
164	Prototype Implementation and Automatic Determination of Pre-Transfusion Tests Based on Image Processing. , 2016, , 331-345.		0
165	Velocity and Brightness Control in Prototype for Blood Type Determination. Lecture Notes in Electrical Engineering, 2017, , 311-321.	0.3	0
166	Mechatronic System for the Promotion of Physical Activity in People with Motor Limitations: First Insights. Lecture Notes in Electrical Engineering, 2019, , 267-274.	0.3	0
167	Mechatronic System Using a Straight-Line Motion Mechanism for AGV Application. Lecture Notes in Electrical Engineering, 2019, , 284-291.	0.3	0
168	Mechatronic System for the Promotion of Physical Activity in People with Motor Limitations. Lecture Notes in Networks and Systems, 2019, , 83-94.	0.5	0
169	A Methodology for Modelling Tugger Train Systems Using Modelica. , 2019, , .		0
170	Energy Efficient Network Manufacturing System Using Controlled Elitist Non-dominated Sorting Genetic Algorithm. Lecture Notes in Networks and Systems, 2020, , 188-206.	0.5	0
171	Development of an Innovative Mechatronic Binder Machine. Sensors, 2022, 22, 741.	2.1	0
172	A Novel Route to Optimize Placement Equipment Kinematics by Coupling Capacitive Accelerometers. Sensors, 2022, 22, 3423.	2.1	0