

Maria Lr Varela

List of Publications by Year in descending order

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137
papers

1,186
citations

516710

16
h-index

501196

28
g-index

160
all docs

160
docs citations

160
times ranked

910
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of the Relation between Lean Manufacturing, Industry 4.0, and Sustainability. Sustainability, 2019, 11, 1439.	3.2	133
2	A multi-criteria decision making approach for the urban renewal in Southern India. Sustainable Cities and Society, 2018, 42, 471-481.	10.4	68
3	Analysing the correlation between social network analysis measures and performance of students in social network-based engineering education. International Journal of Technology and Design Education, 2016, 26, 413-437.	2.6	51
4	Dynamic MCDM with future knowledge for supplier selection. Journal of Decision Systems, 2014, 23, 232-248.	3.2	45
5	A Methodology of Improvement of Manufacturing Productivity Through Increasing Operational Efficiency of the Production Process. Lecture Notes in Mechanical Engineering, 2018, , 23-32.	0.4	38
6	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
7	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
8	Cloudlet Architecture for Dashboard in Cloud and Ubiquitous Manufacturing. Procedia CIRP, 2013, 12, 366-371.	1.9	32
9	Web-based Technologies Integration for Distributed Manufacturing Scheduling in a Virtual Enterprise. International Journal of Web Portals, 2012, 4, 19-34.	1.1	30
10	Collaborative Negotiation Platform using a Dynamic Multi-Criteria Decision Model. International Journal of Decision Support System Technology, 2015, 7, 1-14.	0.7	30
11	Investigation of reconfiguration effect on makespan with social network method for flexible job shop scheduling problem. Computers and Industrial Engineering, 2017, 110, 231-241.	6.3	26
12	Shortening changeover time — An industrial study. , 2015, , .		25
13	The Tool Supporting Decision Making Process in Area of Job-Shop Scheduling. Advances in Intelligent Systems and Computing, 2017, , 490-498.	0.6	25
14	Simulation of cyber physical systems behaviour using timed plant models. Mechatronics, 2018, 54, 175-185.	3.3	19
15	An Ontology For A Model Of Manufacturing Scheduling Problems To Be Solved On The Web. , 2008, , 197-204.		18
16	Distributed Manufacturing Scheduling Based on a Dynamic Multi-criteria Decision Model. Studies in Fuzziness and Soft Computing, 2014, , 81-93.	0.8	18
17	Collaborative Dynamic Decision Making: A Case Study from B2B Supplier Selection. Lecture Notes in Business Information Processing, 2012, , 88-102.	1.0	18
18	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

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19	Job shop schedules analysis in the context of industry 4.0. , 2017, , .		16
20	Development of an Intelligent and Automated System for Lean Industrial Production, Adding Maximum Productivity and Efficiency in the Production Process. Lecture Notes in Mechanical Engineering, 2018, , 131-140.	0.4	16
21	A Collaborative Multiplicative Holt-Winters Forecasting Approach with Dynamic Fuzzy-Level Component. Applied Sciences (Switzerland), 2018, 8, 530.	2.5	16
22	Literature review on autonomous production control methods. Enterprise Information Systems, 2020, 14, 1219-1231.	4.7	16
23	Semi-Double-loop machine learning based CPS approach for predictive maintenance in manufacturing system based on machine status indications. CIRP Annals - Manufacturing Technology, 2021, 70, 365-368.	3.6	15
24	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
25	A Model for B2B Supplier Selection. Advances in Intelligent and Soft Computing, 2011, , 221-228.	0.2	14
26	A Web-Based Decision Support System for Supply Chain Operations Management Towards an Integrated Framework. Lecture Notes in Business Information Processing, 2014, , 104-117.	1.0	13
27	Integrated Framework based on Critical Success Factors for E-Commerce. Journal of Information Systems Engineering and Management, 2017, 2, .	0.7	12
28	Simulation study of large production network robustness in uncertain environment. CIRP Annals - Manufacturing Technology, 2015, 64, 439-442.	3.6	11
29	Virtual Reality Based Ecodesign. Ecoproduction, 2017, , 119-135.	0.8	11
30	A human centered hybrid MAS and meta-heuristics based system for simultaneously supporting scheduling and plant layout adjustment. FME Transactions, 2019, 47, 699-710.	1.4	11
31	An innovative approach for resource sharing and scheduling in a sustainable distributed manufacturing system. Advanced Engineering Informatics, 2022, 52, 101620.	8.0	11
32	Collaborative Network Platform for Multi-site Production. Lecture Notes in Business Information Processing, 2012, , 1-13.	1.0	10
33	A hybrid multi-objective evolutionary algorithm approach for handling sequence- and machine-dependent set-up times in unrelated parallel machine scheduling problem. Sadhana - Academy Proceedings in Engineering Sciences, 2017, 42, 391-403.	1.3	10
34	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
35	A Hybrid Multi-Objective Evolutionary Algorithm-Based Semantic Foundation for Sustainable Distributed Manufacturing Systems. Applied Sciences (Switzerland), 2021, 11, 6314.	2.5	10
36	Experimental Platform for Collaborative Inter and Intra Cellular Fuzzy Scheduling in an Ubiquitous Manufacturing System. Communications in Computer and Information Science, 2012, , 220-229.	0.5	10

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37	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
38	An Industry 4.0 oriented tool for supporting dynamic selection of dispatching rules based on Kano model satisfaction scheduling. FME Transactions, 2019, 47, 757-764.	1.4	10
39	A Fuzzy Simulated Annealing approach for project time-cost tradeoff. Journal of Intelligent and Fuzzy Systems, 2012, 23, 203-215.	1.4	9
40	Manufacturing and Management Paradigms, Methods and Tools for Sustainable Industry 4.0-Oriented Manufacturing Systems. Sustainability, 2022, 14, 1574.	3.2	9
41	Fuzzy Optimization using Simulated Annealing: An Example Set. Studies in Fuzziness and Soft Computing, 2003, , 159-180.	0.8	8
42	Definition of a collaborative working model to the logistics area using design for Six Sigma. International Journal of Quality and Reliability Management, 2016, 33, 465-475.	2.0	8
43	Framework for a risk assessment model to apply in Virtual / Collaborative Enterprises. Procedia Computer Science, 2021, 181, 612-618.	2.0	8
44	Condition based maintenance optimization for multi-state wind power generation systems under periodic inspection. FME Transactions, 2015, 43, 319-327.	1.4	8
45	Alternative approaches analysis for scheduling in an Extended Manufacturing Environment. , 2014, , .		7
46	FHIRbox, a cloud integration system for clinical observations. Procedia Computer Science, 2018, 138, 303-309.	2.0	7
47	Disruptive data visualization towards zero-defects diagnostics. Procedia CIRP, 2018, 67, 374-379.	1.9	7
48	A comparison of production control systems in a flexible flow shop. Procedia Manufacturing, 2017, 13, 1090-1095.	1.9	6
49	Virtual Enterprise integration management based on a Meta-enterprise " a PMBoK approach. Procedia Computer Science, 2017, 121, 1112-1118.	2.0	6
50	THE USE OF THEORY OF CONSTRAINTS TO IMPROVE PRODUCTION EFFICIENCY " INDUSTRIAL PRACTICE AND RESEARCH RESULTS. DEStech Transactions on Engineering and Technology Research, 2018, , .	0.0	5
51	How environment dynamics affects production scheduling: Requirements for development of CPPS models. FME Transactions, 2021, 49, 827-834.	1.4	5
52	A multi-perspective integrated framework of critical success factors for supporting on-line shopping. , 2016, , .		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.	1.0	4
54	Production Flow Improvement in a Textile Industry. Advances in Intelligent Systems and Computing, 2018, , 224-233.	0.6	4

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55	Estimation of manufacturing systems degradation rate for residual life prediction through dynamic workload adjustment. Sadhana - Academy Proceedings in Engineering Sciences, 2019, 44, 1.	1.3	4
56	Development of a System for Supporting Industrial Management. Lecture Notes in Mechanical Engineering, 2020, , 209-215.	0.4	4
57	Investigation of Degradation and Upgradation Models for Flexible Unit Systems: A Systematic Literature Review. Future Internet, 2021, 13, 57.	3.8	4
58	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
59	DECISION SUPPORT VISUALIZATION APPROACH IN TEXTILE MANUFACTURING A CASE STUDY FROM OPERATIONAL CONTROL IN TEXTILE INDUSTRY. International Journal for Quality Research, 2019, 13, 987-1004.	1.0	4
60	Spatial-temporal business partnership selection in uncertain environments. FME Transactions, 2015, 43, 353-361.	1.4	4
61	A Statistical Comparison of Metaheuristics for Unrelated Parallel Machine Scheduling Problems with Setup Times. Mathematics, 2022, 10, 2431.	2.2	4
62	Scheduling single-machine problem based on just-in-time principles. , 2014, , .		3
63	An ordered heuristic for the allocation of resources in unrelated parallel-machines. International Journal of Industrial Engineering Computations, 2015, 6, 145-156.	0.7	3
64	Web-based decision system for effective process planning in network manufacturing environment. , 2016, , .		3
65	Methods time measurement on the optimization of a productive process: A case study. , 2017, , .		3
66	Intelligent Collaborative Decision-Making Models, Methods, and Tools. Mathematical Problems in Engineering, 2018, 2018, 1-2.	1.1	3
67	Developing a Web Scheduling System Based on XML Modeling. , 2002, , 61-70.		3
68	INTEGRATED PLATFORM FOR REAL-TIME CONTROL AND PRODUCTION AND PRODUCTIVITY MONITORING AND ANALYSIS. Romanian Review Precision Mechanics, Optics and Mechatronics, 2016, , .	0.0	3
69	Analysing Critical Success Factors for Supporting Online Shopping. International Journal of Web Portals, 2017, 9, 1-19.	1.1	3
70	Intelligent Platform for Supervision and Production Activity Control in Real Time. Lecture Notes in Mechanical Engineering, 2018, , 151-159.	0.4	3
71	A Self-Parametrization Framework for Meta-Heuristics. Mathematics, 2022, 10, 475.	2.2	3
72	Web System for Supporting Project Management. Intelligent Systems, Control and Automation: Science and Engineering, 2013, , 203-214.	0.5	2

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73	A hybrid framework for supporting scheduling in extended manufacturing environments. , 2014, , .		2
74	Scheduling in product oriented manufacturing systems. , 2014, , .		2
75	Study on the impact of the NS in the performance of meta-heuristics in the TSP. , 2016, , .		2
76	A Knowledge Based System for Supporting Sustainable Industrial Management in a Clothes Manufacturing Company Based on a Data Fusion Model. Lecture Notes in Business Information Processing, 2016, , 113-126.	1.0	2
77	Ranked sequence positional weight heuristic for simultaneous balancing and scheduling jobs in a distributed manufacturing environment. Procedia CIRP, 2018, 67, 3-7.	1.9	2
78	Automatic Assist in Estimating the Production Capacity of Final Machining for Cast Iron Machine Parts. Advances in Intelligent Systems and Computing, 2018, , 254-263.	0.6	2
79	Manufacturing Services Classification in a Decentralized Supply Chain Using Text Mining. Advances in Intelligent Systems and Computing, 2018, , 186-193.	0.6	2
80	Application of value stream mapping for cycle time reduction in production of link and roller assembly. International Journal of Services and Operations Management, 2019, 33, 135.	0.2	2
81	Using social network analysis for industrial plant layout analysis in the context of industry 4.0. International Journal of Industrial and Systems Engineering, 2020, 34, 1.	0.2	2
82	Evaluation of the Simulated Annealing and the Discrete Artificial Bee Colony in the Weight Tardiness Problem with Taguchi Experiments Parameterization. Advances in Intelligent Systems and Computing, 2017, , 718-727.	0.6	2
83	Industrial Plant Layout Analyzing Based on SNA. Advances in Intelligent Systems and Computing, 2017, , 728-737.	0.6	2
84	A Dynamic Selection of Dispatching Rules Based on the Kano Model Satisfaction Scheduling Tool. Lecture Notes in Electrical Engineering, 2019, , 339-346.	0.4	2
85	Integration of Process Planning and Scheduling in an Energy-Efficient Flexible Job Shop: A Hybrid Moth Flame Evolutionary Algorithm. , 2019, , 115-134.		2
86	Electrical Energy Losses Determination In Low Voltage “ A Case Study. Sistemas & GestÃ£o, 2011, 6, 91-116.	0.1	2
87	Simulation of Vertical and Horizontal Integration of Cyber-Physical Systems. , 2020, , .		2
88	Literature review and discussion on collaborative decision making approaches in Industry 4.0. FME Transactions, 2021, 49, 817-826.	1.4	2
89	Sustainable Criteria to the self-decision making of the partners regarding its integration in collaborative networks. Procedia Computer Science, 2022, 196, 371-380.	2.0	2
90	Firefly and Cuckoo Search Algorithm for Scheduling Problems: A Performance Analysis. Lecture Notes in Mechanical Engineering, 2023, , 75-88.	0.4	2

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91	A Web Interface for Accessing Scheduling Methods in a Distributed Knowledge Base. , 2004, , 469-478.		1
92	A Distributed Knowledge Base for Manufacturing Scheduling. , 2004, , 323-330.		1
93	Communication over IP Based on Web Services. , 2008, , .		1
94	P2P Web Service Based System for Supporting Decision-Making in Cellular Manufacturing Scheduling. Intelligent Systems, Control and Automation: Science and Engineering, 2013, , 155-165.	0.5	1
95	An integer programming approach for balancing and scheduling in extended manufacturing environment. , 2015, , .		1
96	A Text Mining Based Supervised Learning Algorithm for Classification of Manufacturing Suppliers. Advances in Intelligent Systems and Computing, 2018, , 236-244.	0.6	1
97	Investigation of Copper and Zinc Contamination on the Work Piece Surface with WEDM. Lecture Notes in Electrical Engineering, 2019, , 608-615.	0.4	1
98	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
99	Tools Implementation in Management of Continuous Improvement Processes. Lecture Notes in Mechanical Engineering, 2019, , 348-357.	0.4	1
100	Comparative study of autonomous production control methods using simulation. Simulation Modelling Practice and Theory, 2020, 104, 102142.	3.8	1
101	An Integrated Fuzzy MCDM Approach to Supplier Selectionâ€™Indian Automotive Industry Case. Modeling and Optimization in Science and Technologies, 2021, , 473-484.	0.7	1
102	Job Adjustment Strategy for Predictive Maintenance in Semi-Fully Flexible Systems Based on Machine Health Status. Sustainability, 2021, 13, 5295.	3.2	1
103	Collaborative Framework for Dynamic Scheduling Supporting in Networked Manufacturing Environments. International Journal of Web Portals, 2014, 6, 33-51.	1.1	1
104	Balancing and scheduling in extended manufacturing environment. Journal of Information Systems Engineering and Management, 2016, 1, .	0.7	1
105	Interoperable Decision Support System Based on Multivariate Time Series for Setup Data Processing and Visualization. Advances in Intelligent Systems and Computing, 2021, , 550-560.	0.6	1
106	Production Planning and Setup Time Optimization: An Industrial Case Study. Lecture Notes in Mechanical Engineering, 2020, , 220-230.	0.4	1
107	Web-Based Decision Support System for Orders Planning. Intelligent Systems, Control and Automation: Science and Engineering, 2013, , 167-177.	0.5	0
108	Product Documentation Management Through REST-Based Web Service. Intelligent Systems, Control and Automation: Science and Engineering, 2013, , 179-189.	0.5	0

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109	Parallel machines scheduling with fuzzy simulated annealing. , 2014, , .		0
110	Comparative analysis of scheduling rules through arena for parallel machines. , 2014, , .		0
111	An ordered approach to Minimum Completion Time in unrelated parallel-machines for the makespan optimization. , 2014, , .		0
112	Scheduling single-machine problem oriented by Just-in-Time principles — A case study. , 2015, , .		0
113	Scheduling and batching in multi-site flexible flow shop environments. , 2015, , .		0
114	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
115	A data fusion approach for business partners selection. International Journal of Information and Decision Sciences, 2018, 10, 311.	0.1	0
116	A comparison of generalised maximum entropy and ordinary least square. International Journal of Information and Decision Sciences, 2018, 10, 297.	0.1	0
117	The Influence of Problem Specific Neighborhood Structures in Metaheuristics Performance. Journal of Mathematics, 2018, 2018, 1-14.	1.0	0
118	Mechanical Design of a Standing Frame adapted for Children with mental deficiency. Procedia CIRP, 2018, 70, 278-283.	1.9	0
119	Ontology-Based Meta-model for Hybrid Collaborative Scheduling. Advances in Intelligent Systems and Computing, 2020, , 408-417.	0.6	0
120	A Production Scheduling Support Framework. Advances in Intelligent Systems and Computing, 2021, , 869-879.	0.6	0
121	A Novel Integrated Framework Approach for TEBC Technologies in Distributed Manufacturing Systems: A Systematic Review and Opportunities. Lecture Notes in Mechanical Engineering, 2022, , 101-112.	0.4	0
122	Analysing Critical Success Factors for Supporting Online Shopping. , 2021, , 473-491.		0
123	A Scheduling Web Service. , 2005, , 187-201.		0
124	An Architecture for a Web Service Based Product Configuration Information System. Communications in Computer and Information Science, 2010, , 20-31.	0.5	0
125	KANBAN SHARING AND OPTIMIZATION IN BOSCH PRODUCTION SYSTEM. , 2010, , .		0
126	Effective Service Dynamic Packages for Ubiquitous Manufacturing System. Communications in Computer and Information Science, 2012, , 207-219.	0.5	0

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127	P2P Decision Support System for Cooperative Electrical Energy Distribution Network Management. Communications in Computer and Information Science, 2012, , 230-240.	0.5	0
128	A Manufacturing Scheduling Approach by Combining Simulation Technique with the Hodgson's Algorithm. , 2014, , 247-257.		0
129	Web-Based Decision System for Distributed Process Planning in a Networked Manufacturing Environment. Studies in Computational Intelligence, 2018, , 111-118.	0.9	0
130	A data fusion approach for business partners selection. International Journal of Information and Decision Sciences, 2018, 10, 311.	0.1	0
131	Integrated Process Planning and Scheduling in Networked Manufacturing Systems for Industry 4.0: A Review and Framework Proposal. , 2018, , .		0
132	Analysis of lot-sizing methods' suitability for different manufacturing application scenarios oriented to MRP and JIT/Kanban environments. Brazilian Journal of Operations and Production Management, 2019, 16, 638-649.	1.4	0
133	THE POTENTIAL OF VALUE ANALYSIS APPLICATION IN THE FURNITURE INDUSTRY – A CASE STUDY AT IKEA. International Journal for Quality Research, 2019, 13, 863-874.	1.0	0
134	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
135	Modelling, Analysis and Simulation of a Patient Admission Problem: A Social Network Approach. Advances in Intelligent Systems and Computing, 2021, , 41-51.	0.6	0
136	Using social network analysis for industrial plant layout analysis in the context of industry 4.0. International Journal of Industrial and Systems Engineering, 2020, 34, 1.	0.2	0
137	RAPID PROTOTYPING BOOST IN RESEARCH AND DEVELOPMENT. International Journal of Mechatronics and Applied Mechanics, 2020, 1, .	0.2	0