Raul Poler

List of Publications by Year
in descending order

128 papers	2,663 citations	331259 21 h-index	205818 48 g-index
142 all docs	142 docs citations	142 times ranked	1999 citing authors

#	ARTICLE	IF	CITATIONS
1	Models for production planning under uncertainty: A review. International Journal of Production Economics, 2006, 103, 271-285.	5.1	506
2	Fuzzy optimization for supply chain planning under supply, demand and process uncertainties. Fuzzy Sets and Systems, 2009, 160, 2640-2657.	1.6	264
3	Quantitative models for supply chain planning under uncertainty: a review. International Journal of Advanced Manufacturing Technology, 2009, 43, 400-420.	1.5	206
4	MRP with flexible constraints: A fuzzy mathematical programming approach. Fuzzy Sets and Systems, 2006, 157, 74-97.	1.6	151
5	Material Requirement Planning with fuzzy constraints and fuzzy coefficients. Fuzzy Sets and Systems, 2007, 158, 783-793.	1.6	106
6	Low-Code as Enabler of Digital Transformation in Manufacturing Industry. Applied Sciences (Switzerland), 2020, 10, 12.	1.3	103
7	Towards a sustainable interoperability in networked enterprise information systems: Trends of knowledge and model-driven technology. Computers in Industry, 2016, 79, 64-76.	5.7	91
8	The effectiveness of a fuzzy mathematical programming approach for supply chain production planning with fuzzy demand. International Journal of Production Economics, 2010, 128, 136-143.	5.1	87
9	Smart manufacturing scheduling: A literature review. Journal of Manufacturing Systems, 2021, 61, 265-287.	7.6	56
10	Collaborative Planning in Multi-tier Supply Chains Supported by a Negotiation-Based Mechanism and Multi-agent System. Group Decision and Negotiation, 2014, 23, 235-269.	2.0	54
11	Trustworthy Industrial IoT Gateways for Interoperability Platforms and Ecosystems. IEEE Internet of Things Journal, 2018, 5, 4506-4514.	5.5	52
12	Reference Models for Digital Manufacturing Platforms. Applied Sciences (Switzerland), 2019, 9, 4433.	1.3	51
13	Collaborative forecasting in networked manufacturing enterprises. Journal of Manufacturing Technology Management, 2008, 19, 514-528.	3.3	48
14	Capacity and material requirement planning modelling by comparing deterministic and fuzzy models. International Journal of Production Research, 2008, 46, 5589-5606.	4.9	42
15	A Conceptual Reference Framework for Enterprise Resilience Enhancement. Sustainability, 2020, 12, 1464.	1.6	34
16	A Cloud Platform to support Collaboration in Supply Networks. International Journal of Production Management and Engineering, 2016, 4, 5.	0.8	31
17	Maturity Model for Interoperability Potential Measurement. Information Systems Management, 2013, 30, 218-234.	3.2	28
18	Performance measurement system for business processes. Production Planning and Control, 2007, 18, 641-654.	5.8	27

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19	The interoperability force in the ERP field. Enterprise Information Systems, 2015, 9, 257-278.	3.3	25
20	Supporting the collaborative decision-making process in an automotive supply chain with a multi-agent system. Production Planning and Control, 2014, 25, 662-678.	5.8	24
21	Development of a multidimensional conceptual model for job shop smart manufacturing scheduling from the Industry 4.0 perspective. Journal of Manufacturing Systems, 2022, 63, 185-202.	7.6	23
22	Software defined networking firewall for industry 4.0 manufacturing systems. Journal of Industrial Engineering and Management, 2018, 11, 318.	1.0	22
23	The Reverse Logistic Process of an Automobile Supply Chain Network Supported by a Collaborative Decision-Making Model. Group Decision and Negotiation, 2011, 20, 79-114.	2.0	21
24	A decision support system for the collaborative selection of strategies in enterprise networks. Decision Support Systems, 2016, 91, 113-123.	3.5	21
25	Models and algorithms for production planning, scheduling and sequencing problems: A holistic framework and a systematic review. Journal of Industrial Information Integration, 2022, 27, 100287.	4.3	21
26	A reference architecture for the collaborative planning modelling process in multi-tier supply chain networks: a Zachman-based approach. Production Planning and Control, 2014, 25, 1118-1134.	5.8	20
27	Enterprise Resilience Assessment—A Quantitative Approach. Sustainability, 2019, 11, 4327.	1.6	20
28	A conceptual model for the production and transport planning process: An application to the automobile sector. Computers in Industry, 2008, 59, 842-852.	5.7	19
29	FUZZY LINEAR PROGRAMMING FOR SUPPLY CHAIN PLANNING UNDER UNCERTAINTY. International Journal of Information Technology and Decision Making, 2010, 09, 373-392.	2.3	19
30	Forecasting model selection through out-of-sample rolling horizon weighted errors. Expert Systems With Applications, 2011, 38, 14778-14785.	4.4	19
31	Customer-Driven Supply Chains. Decision Engineering, 2012, , .	1.5	19
32	Definition of a framework to support strategic decisions to improve Enterprise Resilience. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 700-705.	0.4	17
33	Review of mathematical models for production planning under uncertainty due to lack of homogeneity: proposal of a conceptual model. International Journal of Production Research, 2019, 57, 5239-5283.	4.9	17
34	An optimisation approach for the e-grocery order picking and delivery problem. Central European Journal of Operations Research, 2022, 30, 961-990.	1.1	17
35	Collaborative forecasting management: fostering creativity within the meta value chain context. Supply Chain Management, 2008, 13, 366-374.	3.7	16
36	An integer linear programming model to support customer-driven material planning in synchronised, multi-tier supply chains. International Journal of Production Research, 2014, 52, 4267-4278.	4.9	15

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37	Dynamic modelling of Decision Systems (DMDS). Computers in Industry, 2002, 49, 175-193.	5.7	14
38	A data model for collaborative manufacturing environments. Computers in Industry, 2021, 126, 103398.	5.7	13
39	Supply chain planning under uncertainty: a fuzzy linear programming approach. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	12
40	A Framework for a Decision Support System in a Hierarchical Extended Enterprise Decision Context. Lecture Notes in Business Information Processing, 2009, , 113-124.	0.8	11
41	Relevant problems in collaborative processes of non-hierarchical manufacturing networks. Journal of Industrial Engineering and Management, 2013, 6, .	1.0	11
42	TÃ©cnicas para el Modelado de Procesos de Negocio en Cadenas de Suministro. Informacion Tecnologica (discontinued), 2009, 20, .	0.1	11
43	Fleet management system for mobile robots in healthcare environments. Journal of Industrial Engineering and Management, 2021, 14, 55.	1.0	10
44	Smart Master Production Schedule for the Supply Chain: A Conceptual Framework. Computers, 2021, 10, 156.	2.1	9
45	Matheuristic Algorithm for Job-Shop Scheduling Problem Using a Disjunctive Mathematical Model. Computers, 2022, 11, 1.	2.1	9
46	Optimization Models to Support Decision-Making in Collaborative Networks: A Review. Lecture Notes in Management and Industrial Engineering, 2018, , 249-258.	0.3	8
47	A capacitated lot-sizing model with sequence-dependent setups, parallel machines and bi-part injection moulding. Applied Mathematical Modelling, 2021, 100, 805-820.	2.2	8
48	A collaborative knowledge management framework for supply chains: A UML-based model approach. Journal of Industrial Engineering and Management, 2008, 1, .	1.0	8
49	Enhancing Enterprise Resilience through Enterprise Collaboration. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 688-693.	0.4	7
50	Towards an Agile and Collaborative Platform for Managing Supply Chain Uncertainties. Lecture Notes in Business Information Processing, 2015, , 64-72.	0.8	7
51	Origins of Disruptions Sources Framework to Support the Enterprise Resilience Analysis. IFAC-PapersOnLine, 2019, 52, 2062-2067.	0.5	7
52	Mitigation proposal for the enhancement of enterprise resilience against supply disruptions. IFAC-PapersOnLine, 2019, 52, 2833-2838.	0.5	7
53	Adaptive and Hybrid Forecasting Modelsâ€"A Review. Lecture Notes in Management and Industrial Engineering, 2019, , 315-322.	0.3	7
54	Conceptualisation of the Three-Dimensional Matrix of Collaborative Knowledge Barriers. Sustainability, 2020, 12, 1279.	1.6	7

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55	Collaborative Strategies Alignment to Enhance the Collaborative Network Agility and Resilience. IFIP Advances in Information and Communication Technology, 2015, , 88-99.	0.5	7
56	The Influence of Collaboration on Enterprises Internationalization Process. Sustainability, 2022, 14, 2843.	1.6	7
57	Responsive Production in Manufacturing: A Modular Architecture. Studies in Systems, Decision and Control, 2018, , 231-254.	0.8	6
58	Optimising the Preparedness Capacity of Enterprise Resilience Using Mathematical Programming. Mathematics, 2020, 8, 1596.	1.1	6
59	Computing the Strategies Alignment in Collaborative Networks. Proceedings of the I-ESA Conference, 2014, , 29-40.	0.4	6
60	Achieving Coherence between Strategies and Value Systems in Collaborative Networks. Lecture Notes in Computer Science, 2014, , 261-272.	1.0	6
61	A Multiagent Negotiation Based Model to Support the Collaborative Supply Chain Planning Process. Studies in Informatics and Control, 2011, 20, .	0.6	6
62	Integrating Agent Based Simulation in the Design of Multi-Sided Platform Business Model: A Methodological Approach. , 2018, , .		5
63	Industrial Data Services for Quality Control in Smart Manufacturing â€" the i4Q Framework. , 2021, , .		5
64	A Proposal of Standardised Data Model for Cloud Manufacturing Collaborative Networks. IFIP Advances in Information and Communication Technology, 2017, , 77-85.	0.5	5
65	Categorisation of the Main Disruptive Events in the Sensitive Products Transportation Supply Chains. International Journal of Production Management and Engineering, 2018, 6, 79.	0.8	5
66	Collaborative calculation of the materials requirement planning in the automotive industry. , 2017, , .		4
67	A Novel MILP Model for the Production, Lot Sizing, and Scheduling of Automotive Plastic Components on Parallel Flexible Injection Machines with Setup Common Operators. Complexity, 2021, 2021, 1-16.	0.9	4
68	Conceptual Framework for the Interoperability Requirements of Collaborative Planning Process. , 2010, , 25-34.		4
69	Dealing with the Alignment of Strategies Within the Collaborative Networked Partners. IFIP Advances in Information and Communication Technology, 2015, , 13-21.	0.5	4
70	A MILP for multi-machine injection moulding sequencing in the scope of C2NET Project. International Journal of Production Management and Engineering, 2018, 6, 29.	0.8	4
71	RUBRIC FOR THE ASSESSMENT THE COMPETENCE OF INNOVATION CREATIVITY AND ENTREPRENEURSHIP IN BACHELOR DEGREE. Brazilian Journal of Operations and Production Management, 2016, 13, 118.	0.8	4
72	Methodology for the Definition of a Glossary in a Collaborative Research Project and its Application to a European Network of Excellence. , 2006, , 311-322.		3

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73	An Interoperable Enterprise Architecture to Support Decentralized Collaborative Planning Processes in Supply Chain Networks. , 2010, , 213-224.		3
74	Optimization Models for Supply Chain Production Planning Under Fuzziness. Studies in Fuzziness and Soft Computing, 2014, , 397-422.	0.6	3
75	A Decision-Support Tool to Deal with the Strategies Alignment Process in Collaborative Networks. IFIP Advances in Information and Communication Technology, 2016, , 3-10.	0.5	3
76	An Information Management Conceptual Approach for the Strategies Alignment Collaborative Process. Sustainability, 2020, 12, 3959.	1.6	3
77	A Holistic Algorithm for Materials Requirement Planning in Collaborative Networks. IFIP Advances in Information and Communication Technology, 2017, , 41-50.	0.5	3
78	A Supply Chain Architecture Based on Multi-agent Systems to Support Decentralized Collaborative Processes. IFIP Advances in Information and Communication Technology, 2009, , 128-135.	0.5	3
79	Collaborative Tactical Planning in Multi-level Supply Chains Supported by Multiagent Systems. International Federation for Information Processing, 2010, , 260-267.	0.4	3
80	Aplicación de algoritmos de aprendizaje automático a la programación de órdenes de producción en talleres de trabajo: una revisión de la literatura reciente. Direccion Y Organizacion, 2020, , 82-94.	0.1	3
81	An IoT-based Reliable Industrial Data Services for Manufacturing Quality Control. , 2021, , .		3
82	Decision systems simulation. , 0, , .		2
83	A multiagent-based system to support the decentralized collaborative decision-making process in the automobile supply chain sector. , 2009, , .		2
84	An architecture to support responsive production in manufacturing companies. , 2016, , .		2
85	A Scaffolding Design Framework for Developing Secure Interoperability Components in Digital Manufacturing Platforms. , 2018, , .		2
86	A Modeling Framework to Assess Strategies Alignment Based on Collaborative Network Emotions. IFIP Advances in Information and Communication Technology, 2018, , 349-361.	0.5	2
87	Fuzzy Production Planning Model for Automobile Seat Assembling. , 2006, , 163-171.		2
88	Order Fulfilment Strategies in the Capital Goods Sector. An Empirical Research. , 2012, , 257-264.		2
89	Modelling the Strategies Alignment Process in the Collaborative Network Context. Lecture Notes in Management and Industrial Engineering, 2017, , 33-41.	0.3	2
90	Research on Collaborative Processes in Non Hierarchical Manufacturing Networks. IFIP Advances in Information and Communication Technology, 2014, , 21-28.	0.5	2

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91	Competitive universities need to internationalize learning: Perspectives from three European universities. Journal of Industrial Engineering and Management, 2009, 2, .	1.0	2
92	Virtual Integration of the Tile Industry (VITI). Lecture Notes in Computer Science, 2003, , 65-76.	1.0	2
93	GESTION DE LA CALIDAD TOTAL Y MANTENIMIENTO PRODUCTIVO TOTAL EN LA FABRICACION DE ALTO RENDIMIENTO. Dyna (Spain), 2011, 86, 648-655.	0.1	2
94	A Roadmap Focused on SMEs Decided to Participate in Collaborative Non-Hierarchical Networks. International Federation for Information Processing, 2012, , 397-407.	0.4	2
95	Methodology to Identify SMEs Needs of Internationalised and Collaborative Networks. IFIP Advances in Information and Communication Technology, 2013, , 463-470.	0.5	2
96	Engineer to Order Supply Chain Improvement Based on the GRAI Meta-model for Interoperability: An Empirical Study. , 2008, , 521-532.		2
97	Knowledge Registration Module Design for Enterprise Resilience Enhancement. IFAC-PapersOnLine, 2021, 54, 1029-1034.	0.5	2
98	A Decision-Making Tool for Algorithm Selection Based on a Fuzzy TOPSIS Approach to Solve Replenishment, Production and Distribution Planning Problems. Mathematics, 2022, 10, 1544.	1.1	2
99	Integrated analysis of the production planning process using Trampolin and DGRAI as process modelling tools. Production Planning and Control, 2006, 17, 31-43.	5.8	1
100	Leagility in Enterprise Networks Configuration of Capital Goods Sector. , 2014, , 199-207.		1
101	Improving the collaborative network performance through the activation of compatible strategies. Journal of Evidence-Based Medicine, 2015, 5, 35.	0.7	1
102	An architecture to support the development of reconfigurable and updatable product-service systems in furniture sector. , 2017, , .		1
103	Interoperable Algorithms for Its Implementation in a Cloud Collaborative Manufacturing Platform. Proceedings of the I-ESA Conference, 2019, , 93-103.	0.4	1
104	An Interoperable Platform to Implement Collaborative Forecasting in OEM Supply Chains. , 2007, , 179-188.		1
105	The Development of Supply Chain Strategy. Decision Engineering, 2012, , 1-19.	1.5	1
106	MODELLING COLLABORATIVE FORECASTING IN DECENTRALIZED SUPPLY CHAIN NETWORKS WITH A MULTIAGENT SYSTEM. , 2009, , .		1
107	An Operational Planning Solution for SMEs in Collaborative and Non-Hierarchical Networks. Lecture Notes in Business Information Processing, 2013, , 46-56.	0.8	1
108	Fuzzy Nonlinear Optimization Model to Improve Intermittent Demand Forecasting. Advances in Computational Intelligence and Robotics Book Series, 2014, , 181-198.	0.4	1

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109	Un anÃ¡lisis de revisiones de modelos y algoritmos para la optimizaciÃ³n de planes de aprovisionamiento, producciÃ³n y distribuciÃ³n de la cadena de suministro. Direccion Y Organizacion, 2020, , 28-52.	0.1	1
110	Corrigendum to â€œA Novel MILP Model for the Production, Lot Sizing, and Scheduling of Automotive Plastic Components on Parallel Flexible Injection Machines with Setup Common Operatorsâ€. Complexity, 2021, 2021, 1-17.	0.9	1
111	Supporting the Strategies Alignment Process in Collaborative Networks. IFIP Advances in Information and Communication Technology, 2017, , 3-19.	0.5	0
112	An Approach to the Industrial Organization Engineering Background in Spain. Lecture Notes in Management and Industrial Engineering, 2017, , 11-23.	0.3	0
113	How Can e-Grocers Use Artificial Intelligence Based on Technology Innovation to Improve Supply Chain Management?. IFIP Advances in Information and Communication Technology, 2021, , 142-150.	0.5	0
114	Matheuristic Algorithms for Production Planning in Manufacturing Enterprises. IFIP Advances in Information and Communication Technology, 2021, , 115-122.	0.5	0
115	Practices in Knowledge Management in Small and Medium Firms. IFIP Advances in Information and Communication Technology, 2003, , 217-224.	0.5	0
116	Tools for Supporting Knowledge Management. , 2009, , 126-147.		0
117	Sustainable Supply Chain Management in the Book Publishing sector. Brazilian Journal of Operations and Production Management, 2012, 9, 39-50.	0.8	0
118	Eco-Design in the Furniture and Wood-Processing Sector in Spain: Benefits and Constraints. , 2012, , 147-155.		0
119	Modelling and Simulating Supply Chains. Decision Engineering, 2012, , 113-131.	1.5	0
120	H2020 opportunities for research and innovation in Production Management and Engineering. International Journal of Production Management and Engineering, 2014, 2, 3.	0.8	0
121	Order Promising Process for Supply Chains with Lack of Homogeneity in the Product. Lecture Notes in Management and Industrial Engineering, 2014, , 185-192.	0.3	0
122	A REVIEW OF APPROACHES AND TOOLS FOR COLLABORATIVE NETWORKS SIMULATION. Brazilian Journal of Operations and Production Management, 2016, 13, 232.	0.8	0
123	DECISION-MAKING IN TEAMWORKS: STICKY NOTES TOOL FOR DEGREE STUDENTS. , 2016, , .		0
124	TOOLS FOR MANAGING REFERENCES IN CLASS PROJECTS AND SCIENTIFIC WORKS. , 2017, , .		0
125	STORYBOARD TOOLS FOR UNIVERSITY AND EDUCATION RESEARCH PROJECTS. INTED Proceedings, 2017, , .	0.0	0
126	TEXT-TO-SPEECH APPLICATIONS TO DEVELOP EDUCATIONAL MATERIALS. , 2018, , .		0

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127	TEAM BUILDING DYNAMICS: AN APPLICATION TO MBA STUDENTS. INTED Proceedings, 2018, , .	0.0	0
128	A SIMPY DIGITAL TWIN JOB SHOP FOR LEARNING IN INDUSTRIAL ENGINEERING AND LOGISTICS. INTED Proceedings, 2022, , .	0.0	0