Bopaya Bidanda

List of Publications by Year
in descending order

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61 papers	1,302 citations	430874 18 h-index	377865 34 g-index
64 all docs	64 docs citations	64 times ranked	1065 citing authors

#	Article	IF	Citations
1	A multi-objective model for project portfolio selection to implement lean and Six Sigma concepts. International Journal of Production Research, 2008, 46, 6611-6625.	7.5	136
2	Worker assignment in cellular manufacturing considering technical and human skills. International Journal of Production Research, 2002, 40, 1479-1492.	7.5	112
3	Human related issues in manufacturing cell design, implementation, and operation: a review and survey. Computers and Industrial Engineering, 2005, 48, 507-523.	6.3	111
4	Slip resistance of the shoe-floor interface under biomechanically-relevant conditions. Ergonomics, 1994, 37, 511-524.	2.1	86
5	Modeling sustainable product lifecycle decision support systems. International Journal of Production Economics, 2009, 122, 366-375.	8.9	77
6	Assessing the environmental footprint of manufactured products: A survey of current literature. International Journal of Production Economics, 2013, 146, 515-523.	8.9	73
7	Review of reverse engineering systems â€“ current state of the art. Virtual and Physical Prototyping, 2017, 12, 161-172.	10.4	64
8	A neural network process model for abrasive flow machining operations. Journal of Manufacturing Systems, 1998, 17, 52-64.	13.9	62
9	Sustainable manufacturing and the role of theInternational Journal of Production Research. International Journal of Production Research, 2013, 51, 7448-7455.	7.5	45
10	Reverse engineering and its relevance to industrial engineering: A critical review. Computers and Industrial Engineering, 1994, 26, 343-348.	6.3	39
11	Sustainable manufacturing production-inventory decision of multiple factories with JIT logistics, component recovery and emission control. Transportation Research, Part E: Logistics and Transportation Review, 2019, 128, 356-383.	7.4	39
12	An oligopoly model to analyze the market and social welfare for green manufacturing industry. Journal of Cleaner Production, 2014, 85, 94-103.	9.3	33
13	A part image reconstruction system for reverse engineering of design modifications. Journal of Manufacturing Systems, 1991, 10, 383-395.	13.9	31
14	Material and process selection in product design using decision-making technique (AHP). European Journal of Industrial Engineering, 2012, 6, 322.	0.8	30
15	Leveraging Six Sigma with industrial engineering tools in crateless retort production. International Journal of Production Research, 2008, 46, 6701-6719.	7.5	27
16	Assessing Human Capital: A Lean Manufacturing Example. EMJ - Engineering Management Journal, 2002, 14, 35-39.	2.3	21
17	Advanced Processes to Fabricate Scaffolds for Tissue Engineering. , 2008, , 149-170.		21
18	On scheduling parallel machines with two setup classes. International Journal of Production Research, 1991, 29, 2443-2458.	7.5	18

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19	Reducing waste in casting with a predictive neural model. Journal of Intelligent Manufacturing, 1994, 5, 277-286.	7.3	18
20	Computer-aided reverse engineering of the human musculoskeletal system. Virtual and Physical Prototyping, 2006, 1, 83-91.	10.4	18
21	Offshoring manufacturing: Implications for engineering jobs and education: A survey and case study. Robotics and Computer-Integrated Manufacturing, 2006, 22, 576-587.	9.9	17
22	Assessing the global burden of hemorrhage: The global blood supply, deficits, and potential solutions. SAGE Open Medicine, 2021, 9, 205031212110549.	1.8	17
23	Optimal decision of an economic production quantity model for imperfect manufacturing under hybrid maintenance policy with shortages and partial backlogging. International Journal of Production Research, 2019, 57, 6061-6085.	7.5	16
24	A genetic cluster algorithm for the machine-component grouping problem. Journal of Intelligent Manufacturing, 1996, 7, 229-241.	7.3	15
25	Geometric precision analysis for Additive Manufacturing processes: A comparative study. Precision Engineering, 2021, 69, 68-76.	3.4	15
26	Computer-aided-design-based interactive off-line programming of spray-glazing robots. International Journal of Computer Integrated Manufacturing, 1993, 6, 357-365.	4.6	12
27	Modular software development for digitizing systems data analysis in reverse engineering applications: case of concentric rotational parts. Computers and Industrial Engineering, 1994, 26, 395-410.	6.3	12
28	Metallic and Ceramic Biomaterials: Current and Future Developments. , 2008, , 1-14.		12
29	Representing group technology classification and coding techniques with object oriented modeling principles. IIE Transactions, 1995, 27, 542-554.	2.1	11
30	Relating product specifications and performance data with a neural network model for design improvement. Journal of Intelligent Manufacturing, 1993, 4, 367-374.	7.3	10
31	Reverse Engineering and Rapid Prototyping. , 2007, , 977-990.		9
32	Optimal inventory replenishment, production, and promotion effect with risks of production disruption and stochastic demand. Journal of Industrial and Production Engineering, 2017, 34, 79-89.	3.1	9
33	Tolerance estimation and metrology for reverse engineering based remanufacturing systems. International Journal of Production Research, 2022, 60, 2802-2815.	7.5	9
34	Development of a spatter index for automated welding inspection using computer vision. Computers and Industrial Engineering, 1989, 16, 215-224.	6.3	8
35	On the Use of Students for Developing Engineering Laboratories. Journal of Engineering Education, 1995, 84, 205-213.	3.0	7
36	Laser and Photonic Systems Integration: Emerging Innovations and Framework for Research and Education. Human Factors and Ergonomics in Manufacturing, 2013, 23, 483-516.	2.7	7

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37	Minimising total cost with regular and emergency outsourcing sources: a neuro-dynamic programming approach. International Journal of Production Research, 2009, 47, 5811-5827.	7.5	6
38	A brief history of health systems engineering - its early years through 1989: An industrial engineering perspective. IIE Transactions on Healthcare Systems Engineering, 2014, 4, 217-229.	0.8	6
39	Reconstructing original design: Process planning for reverse engineering. IISE Transactions, 2023, 55, 509-522.	2.4	6
40	On the development of computer bases path planning strategies for Robotic Spray Glazing. Computers and Industrial Engineering, 1992, 23, 15-18.	6.3	5
41	On the development of a robotic workcell for sanitary ware spray glazing. Computers and Industrial Engineering, 1991, 21, 541-545.	6.3	4
42	Performance standards and testing of two-dimensional bar code systems for overhead scanning. Journal of Manufacturing Systems, 1996, 15, 305-315.	13.9	4
43	Reverse Engineering: A Review & Evaluation of Contact Based Systems. , 2006, , 107-131.		4
44	A castability expert system. Computers and Industrial Engineering, 1993, 25, 99-102.	6.3	3
45	Challenges facing information technology to support world class manufacturing. Computers in Industry, 1996, 28, 163-165.	9.9	3
46	A student advising system for undergraduate engineering curricular scheduling. Computers and Education, 1994, 22, 205-213.	8.3	2
47	Project Management and Implementation of Cellular Manufacturing. , 0, , 413-452.		2
48	Predicting glass furnace output using statistical and neural computing methods. International Journal of Production Research, 2000, 38, 1255-1269.	7.5	1
49	Strategic planning models for prototyping and product development centres. International Journal of Product Development, 2004, 1, 133.	0.2	1
50	Attribute-level neighbor hierarchy construction using evolved pattern-based knowledge induction. IEEE Transactions on Knowledge and Data Engineering, 2006, 18, 917-929.	5.7	1
51	Operating room turnaround time analysis: a case study. International Journal of Collaborative Enterprise, 2014, 4, 101.	0.2	1
52	Instant production-replenishment and coordination mechanism for short life cycle and deteriorating item with stock-dependent demand. International Journal of Systems Science: Operations and Logistics, 2018, 5, 45-59.	3.0	1
53	A modeling technique for execution and simulation of discrete automation. , 2008, , 273-277.		1
54	On the development of an integrated computer system for cephalometric analyses. Journal of Medical Systems, 1990, 14, 1-16.	3.6	0

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55	Optimal Selection of Workholding Devices for Rotational Parts. IIE Transactions, 1990, 22, 65-72.	2.1	0
56	<title>Need for and the development of a generic programming interface for industrial robots</title>. , 1996, 2911, 89.		0
57	Parametric design and NC code generation of countersink cutting tools. International Journal of Computer Integrated Manufacturing, 1996, 9, 105-112.	4.6	0
58	System implementation issues of dynamic discrete disaster decision simulation system (D4S2) - phase I. , 2007, , .		0
59	A game theory model for analysing market competition in sustainable manufacturing industry. International Journal of Sustainable Manufacturing, 2011, 2, 161.	0.3	0
60	A hybrid modelling framework to simulate disaster response decisions. International Journal of Advanced Intelligence Paradigms, 2012, 4, 83.	0.3	0
61	A framework of tolerance specification for freeform point clouds and capability analysis for reverse engineering processes. International Journal of Production Research, 2022, 60, 7475-7491.	7.5	0