

# Surendra M Gupta

## List of Publications by Year in descending order

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100  
papers

6,139  
citations

81743

39  
h-index

74018

75  
g-index

100  
all docs

100  
docs citations

100  
times ranked

2585  
citing authors

#	ARTICLE	IF	CITATIONS
1	Issues in environmentally conscious manufacturing and product recovery: a survey. Computers and Industrial Engineering, 1999, 36, 811-853.	3.4	875
2	Environmentally conscious manufacturing and product recovery (ECMPRO): A review of the state of the art. Journal of Environmental Management, 2010, 91, 563-591.	3.8	754
3	A balancing method and genetic algorithm for disassembly line balancing. European Journal of Operational Research, 2007, 179, 692-708.	3.5	268
4	Disassembly line in product recovery. International Journal of Production Research, 2002, 40, 2569-2589.	4.9	237
5	Ant colony optimization for disassembly sequencing with multiple objectives. International Journal of Advanced Manufacturing Technology, 2006, 30, 481-496.	1.5	179
6	Petri net approach to disassembly process planning for products with complex AND/OR precedence relationships. European Journal of Operational Research, 2001, 135, 428-449.	3.5	155
7	Artificial bee colony algorithm for solving sequence-dependent disassembly line balancing problem. Expert Systems With Applications, 2013, 40, 7231-7241.	4.4	150
8	Disassembly sequencing using genetic algorithm. International Journal of Advanced Manufacturing Technology, 2006, 30, 497-506.	1.5	146
9	A particle swarm optimization algorithm with neighborhood-based mutation for sequence-dependent disassembly line balancing problem. International Journal of Advanced Manufacturing Technology, 2013, 69, 197-209.	1.5	139
10	Disassembly line balancing problem: a review of the state of the art and future directions. International Journal of Production Research, 2019, 57, 4805-4827.	4.9	136
11	A hybrid genetic algorithm for sequence-dependent disassembly line balancing problem. Annals of Operations Research, 2016, 242, 321-354.	2.6	134
12	Disassembly of multiple product structures. Computers and Industrial Engineering, 1997, 32, 949-961.	3.4	124
13	ENVIRONMENTAL CONCERNS AND RECYCLING/DISASSEMBLY EFFORTS IN THE ELECTRONICS INDUSTRY. Journal of Electronics Manufacturing, 1997, 07, 1-22.	0.4	118
14	Disassembly of complex product structures with parts and materials commonality. Production Planning and Control, 1997, 8, 255-269.	5.8	108
15	Multi-objective fuzzy disassembly line balancing using a hybrid discrete artificial bee colony algorithm. Journal of Manufacturing Systems, 2015, 37, 672-682.	7.6	102
16	Quality management in product recovery using the Internet of Things: An optimization approach. Computers in Industry, 2014, 65, 491-504.	5.7	98
17	Disassembly to order system under uncertainty. Omega, 2006, 34, 550-561.	3.6	97
18	Ant colony optimization for sequence-dependent disassembly line balancing problem. Journal of Manufacturing Technology Management, 2013, 24, 413-427.	3.3	96

#	ARTICLE	IF	CITATIONS
19	Use of MCDM techniques in environmentally conscious manufacturing and product recovery: State of the art. <i>Journal of Manufacturing Systems</i> , 2015, 37, 746-758.	7.6	96
20	Estimation of electronic waste using optimized multivariate grey models. <i>Waste Management</i> , 2019, 95, 241-249.	3.7	93
21	A MULTI-CRITERIA DECISION MAKING APPROACH FOR DISASSEMBLY-TO-ORDER SYSTEMS. <i>Journal of Electronics Manufacturing</i> , 2002, 11, 171-183.	0.4	92
22	A tabu search algorithm for balancing a sequence-dependent disassembly line. <i>Production Planning and Control</i> , 2014, 25, 149-160.	5.8	90
23	Disassembly Modeling for Assembly, Maintenance, Reuse and Recycling. , 0, , .		89
24	A Robotic-Driven Disassembly Sequence Generator for End-Of-Life Electronic Products. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2012, 68, 43-52.	2.0	86
25	Warranty and maintenance analysis of sensor embedded products using internet of things in industry 4.0. <i>International Journal of Production Economics</i> , 2019, 208, 483-499.	5.1	81
26	A genetic simulated annealing algorithm for parallel partial disassembly line balancing problem. <i>Applied Soft Computing Journal</i> , 2021, 107, 107404.	4.1	74
27	Evaluation of design alternatives of End-Of-Life products using internet of things. <i>International Journal of Production Economics</i> , 2019, 208, 281-293.	5.1	73
28	A multi-criteria decision making model for advanced repair-to-order and disassembly-to-order system. <i>European Journal of Operational Research</i> , 2014, 233, 408-419.	3.5	69
29	Trade-in-to-upgrade as a marketing strategy in disassembly-to-order systems at the edge of blockchain technology. <i>International Journal of Production Research</i> , 2020, 58, 7183-7200.	4.9	68
30	Performance improvement potential of sensor embedded products in environmental supply chains. <i>Resources, Conservation and Recycling</i> , 2011, 55, 580-592.	5.3	61
31	Disassembly Sequencing Using Tabu Search. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2016, 82, 69-79.	2.0	60
32	Warranty as a marketing strategy for remanufactured products. <i>Journal of Cleaner Production</i> , 2017, 161, 1294-1307.	4.6	59
33	A two-phase variable neighbourhood search algorithm for assembly line worker assignment and balancing problem type-II: an industrial case study. <i>International Journal of Production Research</i> , 2016, 54, 722-741.	4.9	57
34	Comparison of economic benefits of sensor embedded products and conventional products in a multi-product disassembly line. <i>Computers and Industrial Engineering</i> , 2010, 59, 748-763.	3.4	56
35	Buffer allocation plan for a remanufacturing cell. <i>Computers and Industrial Engineering</i> , 2005, 48, 657-677.	3.4	51
36	Disassembly system modeling and design with parts selection for cost, recycling and CO2 saving rates using multi criteria optimization. <i>Journal of Manufacturing Systems</i> , 2016, 38, 151-164.	7.6	49

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37	A variable neighbourhood search algorithm for disassembly lines. Journal of Manufacturing Technology Management, 2015, 26, 182-194.	3.3	48
38	Optimal pricing of reusable and recyclable components under alternative product acquisition mechanisms. International Journal of Production Research, 2007, 45, 4621-4652.	4.9	47
39	Optimal End-of-Life Management in Closed-Loop Supply Chains Using RFID and Sensors. IEEE Transactions on Industrial Informatics, 2012, 8, 719-728.	7.2	46
40	Remanufacturing Modeling and Analysis. , 0, , .		46
41	A holistic approach for performance evaluation using quantitative and qualitative data: A food industry case study. Expert Systems With Applications, 2017, 81, 410-422.	4.4	43
42	Evaluation of Waste Electronic Product Trade-in Strategies in Predictive Twin Disassembly Systems in the Era of Blockchain. Sustainability, 2020, 12, 5416.	1.6	38
43	Solving the disassembly-to-order problem using linear physical programming. International Journal of Mathematics in Operational Research, 2009, 1, 504.	0.1	35
44	Near optimal buffer allocation in remanufacturing systems with N-policy. Computers and Industrial Engineering, 2010, 59, 496-508.	3.4	34
45	Coping with disassembly yield uncertainty in remanufacturing using sensor embedded products. Journal of Remanufacturing, 2011, 1, 1.	1.6	34
46	Recovery of sensor embedded washing machines using a multi-kanban controlled disassembly line. Robotics and Computer-Integrated Manufacturing, 2011, 27, 318-334.	6.1	33
47	Evaluating the impact of sensor-embedded products on the performance of an air conditioner disassembly line. International Journal of Advanced Manufacturing Technology, 2011, 53, 1199-1216.	1.5	32
48	Environmentally Concerned Logistics Operations in Fuzzy Environment: A Literature Survey. Logistics, 2017, 1, 4.	2.4	25
49	An Evolutionary Algorithm for Selective Disassembly of End-of-Life Products. International Journal of Swarm Intelligence and Evolutionary Computation, 2012, 1, 1-7.	0.4	24
50	Simulated Annealing Algorithm for Solving Sequence-Dependent Disassembly Line Balancing Problem. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 93-98.	0.4	23
51	An Intelligent Multiattribute Group Decision-Making Approach With Preference Elicitation for Performance Evaluation. IEEE Transactions on Engineering Management, 2020, 67, 885-901.	2.4	23
52	Implementation of just-in-time methodology in a small company. Production Planning and Control, 1995, 6, 358-364.	5.8	19
53	Unified assembly- and disassembly-line model formulae. Journal of Manufacturing Technology Management, 2015, 26, 195-212.	3.3	17
54	Marketing research and life cycle pricing strategies for new and remanufactured products. Journal of Remanufacturing, 2019, 9, 29-50.	1.6	17

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55	<title>Combinatorial optimization methods for disassembly line balancing</title>. , 2004, , .		16
56	Pricing Decision Models for Remanufactured Short-Life Cycle Technology Products with Generation Consideration. <i>Procedia CIRP</i> , 2017, 61, 195-200.	1.0	16
57	A Robust Robotic Disassembly Sequence Design Using Orthogonal Arrays and Task Allocation. <i>Robotics</i> , 2019, 8, 20.	2.1	16
58	Predictive analysis of electronic waste for reverse logistics operations: a comparison of improved univariate grey models. <i>Soft Computing</i> , 2020, 24, 15747-15762.	2.1	16
59	N-Policy Queueing System with Finite Source and Warm Spares. <i>Opsearch</i> , 1999, 36, 189-217.	1.1	15
60	A multiple objective tabu search approach for end-of-life product disassembly. <i>International Journal of Advanced Operations Management</i> , 2009, 1, 177.	0.3	15
61	A Decision Maker-Centered End-of-Life Product Recovery System for Robot Task Sequencing. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2018, 91, 603-616.	2.0	15
62	Designing a Sustainable Green Closed-Loop Supply Chain under Uncertainty and Various Capacity Levels. <i>Logistics</i> , 2021, 5, 20.	2.4	15
63	An approach to quantify the financial benefit of embedding sensors into products for end-of-life management: a case study. <i>Production Planning and Control</i> , 2014, 25, 26-43.	5.8	14
64	Value depreciation factors for new and remanufactured high-technology products: a case study on iPhones and iPads. <i>International Journal of Production Research</i> , 2020, 58, 7218-7249.	4.9	14
65	<title>Complications in disassembly line balancing</title>. , 2001, , .		13
66	Maintenance and remanufacturing strategy: using sensors to predict the status of wind turbines. <i>Journal of Remanufacturing</i> , 2018, 8, 131-152.	1.6	13
67	Money-back guarantee warranty policy with preventive maintenance strategy for sensor-embedded remanufactured products. <i>Journal of Industrial Engineering International</i> , 2018, 14, 767-782.	1.8	12
68	<title>Goal programming approach to the remanufacturing supply-chain model</title>. , 2001, , .		11
69	Heuristic and optimal approaches to lot-sizing incorporating backorders: an empirical evaluation. <i>International Journal of Production Research</i> , 1992, 30, 2813-2824.	4.9	10
70	Disassembly parts selection and analysis for recycling rate and cost by goal programming. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2016, 10, JAMDSM0052-JAMDSM0052.	0.3	10
71	Evaluation of Maintenance and EOL Operation Performance of Sensor-Embedded Laptops. <i>Logistics</i> , 2018, 2, 3.	2.4	10
72	Warranty and Preventive Maintenance Analysis for Sustainable Reverse Supply Chains. <i>Journal of Management Science and Engineering</i> , 2017, 2, 69-94.	1.9	9

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73	<title>Modeling operational behavior of a disassembly line</title> . , 2004, , .		8
74	Evaluating two-dimensional warranty policies for remanufactured products. Journal of Remanufacturing, 2017, 7, 19-47.	1.6	8
75	One-Dimensional Renewable Warranty Management within Sustainable Supply Chain. Resources, 2017, 6, 16.	1.6	8
76	Optimal Management of Reverse Supply Chains with Sensor-Embedded End-of-Life Products. Applications of Management Science, 2012, , 109-129.	0.3	7
77	Evaluation of Design Alternatives of Sensor Embedded End-of-life Products in Multiple Periods. Procedia CIRP, 2017, 61, 98-103.	1.0	6
78	Optimizing two-dimensional renewable warranty policies for sensor embedded remanufactured products. Journal of Industrial Engineering and Management, 2017, 10, 145.	1.0	6
79	Analysis of cost effectiveness by material type for CO<sub>2</sub> saving and recycling rates in disassembly parts selection using goal programming. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2018, 12, JAMDSM0080-JAMDSM0080.	0.3	6
80	A Pricing and Acquisition Strategy for New and Remanufactured High-Technology Products. Logistics, 2019, 3, 8.	2.4	6
81	Combined demand and lead time uncertainty with back-ordering in a multi-level product structure environment. Production Planning and Control, 1996, 7, 57-67.	5.8	5
82	Metrics and experimental data for assessing unbalanced disassembly lines. International Journal of Manufacturing Technology and Management, 2011, 23, 82.	0.1	4
83	Responsible & sustainable manufacturing. International Journal of Production Research, 2020, 58, 7181-7182.	4.9	4
84	Pricing strategy and competition for new and remanufactured products across generations. Journal of Remanufacturing, 2022, 12, 47-88.	1.6	4
85	Quality Assurance in Remanufacturing with Sensor Embedded Products. , 2013, , 95-112.		4
86	<b>Selection of Supplier for End-of-Life Products based on the Optimum Profit, Quality Level, Material Sales Revenue and Disposal Weight </b>. Innovation and Supply Chain Management, 2014, 8, 134-139.	0.1	4
87	<b>Disassembling and Remanufacturing End-of-Life Sensor Embedded CellÂ</b><b>Phones</b>. Innovation and Supply Chain Management, 2015, 9, 111-117.	0.1	4
88	Fuzzy Linear Physical Programming for Multiple Criteria Decision-Making Under Uncertainty. International Journal of Computers, Communications and Control, 2015, 11, 26.	1.2	4
89	Response Surface Methodology Applied to Toll Plaza Design for the Transition to Electronic Toll Collection. International Transactions in Operational Research, 2001, 8, 707-726.	1.8	2
90	Modeling and Analysis of a Closed-Loop Supply Chain in Consideration of Extra Demand. International Journal of Automation Technology, 2018, 12, 469-481.	0.5	2

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91	<b>Performance Analysis of Advanced Remanufacture-To-Order,Disassembly-To-Order and Refurbishment-To-Order System </b>. Innovation and Supply Chain Management, 2014, 8, 140-149.	0.1	1
92	Price Models for New and Remanufactured High-Technology Products across Generations. , 2019, , 263-290.		1
93	Lexicographic Goal Programming and Assessment Tools for a Combinatorial Production Problem. , 0, , 148-184.		1
94	One-Dimensional Warranty Policies Analysis for Remanufactured Products in Reverse Supply Chain. Innovation and Supply Chain Management, 2017, 11, 23-32.	0.1	0
95	Analysis of Product Designs for Product Recovery Using Linear Physical Programming. , 2018, , .		0
96	Comparison of Sensor-Embedded Closed-Loop Supply Chain Systems with Regular Systems. , 2021, , 171-196.		0
97	<b>One-Dimensional Warranty Policies Analysis for Remanufactured </b><b>Products in Reverse Supply Chain </b>. Innovation and Supply Chain Management, 2017, 11, 13-22.	0.1	0
98	Design for a Closed-Loop Supply Chain System With Sensor-Embedded Refrigerators. Advances in Finance, Accounting, and Economics, 2019, , 1-24.	0.3	0
99	Applicability of Using the Internet of Things in Warranty Analysis for Product Recovery. , 2019, , 291-322.		0
100	Managing Uncertainties in Design Alternatives of EOL Products with Fractional Disassembly Yields. International Journal of Quality Control and Standards in Science and Engineering, 2022, 9, 0-0.	0.0	0