

# Ali Gharbi

## List of Publications by Year in descending order

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118  
papers

3,034  
citations

126708

33  
h-index

223531

46  
g-index

118  
all docs

118  
docs citations

118  
times ranked

1377  
citing authors

#	ARTICLE	IF	CITATIONS
1	Production planning of a hybrid manufacturing&acircledquo;remanufacturing system under uncertainty within a closed-loop supply chain. International Journal of Production Economics, 2012, 135, 81-93.	5.1	235
2	Production and preventive maintenance rates control for a manufacturing system: An experimental design approach. International Journal of Production Economics, 2000, 65, 275-287.	5.1	85
3	Integrated production, sampling quality control and maintenance of deteriorating production systems with AOQL constraint. Omega, 2016, 61, 110-126.	3.6	84
4	Joint production, quality and maintenance control of a two-machine line subject to operation-dependent and quality-dependent failures. International Journal of Production Economics, 2018, 195, 210-226.	5.1	76
5	Maintenance scheduling and production control of multiple-machine manufacturing systems. Computers and Industrial Engineering, 2005, 48, 693-707.	3.4	71
6	Age-dependent production planning and maintenance strategies in unreliable manufacturing systems with lost sale. European Journal of Operational Research, 2007, 178, 408-420.	3.5	66
7	Simultaneous control of production, repair/replacement and preventive maintenance of deteriorating manufacturing systems. International Journal of Production Economics, 2011, 134, 271-282.	5.1	66
8	Control of production and corrective maintenance rates in a multiple-machine, multiple-product manufacturing system. Mathematical and Computer Modelling, 2003, 38, 351-365.	2.0	61
9	Joint optimal production control/preventive maintenance policy for imperfect process manufacturing cell. International Journal of Production Economics, 2012, 137, 126-136.	5.1	58
10	Joint optimal lot sizing and production control policy in an unreliable and imperfect manufacturing system. International Journal of Production Economics, 2013, 144, 143-156.	5.1	58
11	Optimal safety stocks and preventive maintenance periods in unreliable manufacturing systems. International Journal of Production Economics, 2007, 107, 422-434.	5.1	56
12	Optimal production control problem in stochastic multiple-product multiple-machine manufacturing systems. IIE Transactions, 2003, 35, 941-952.	2.1	52
13	Joint optimization of production and maintenance strategies considering a dynamic sampling strategy for a deteriorating system. Computers and Industrial Engineering, 2020, 140, 106273.	3.4	47
14	Joint modified block replacement and production/inventory control policy for a failure-prone manufacturing cell. Omega, 2011, 39, 642-654.	3.6	45
15	Joint control of production, overhaul, and preventive maintenance for a production system subject to quality and reliability deteriorations. International Journal of Advanced Manufacturing Technology, 2013, 69, 2111-2130.	1.5	45
16	Joint production and maintenance optimization in flexible hybrid Manufacturing&acircledquo;Remanufacturing systems under age-dependent deterioration. International Journal of Production Economics, 2019, 216, 239-254.	5.1	45
17	Joint economic design of production, continuous sampling inspection and preventive maintenance of a deteriorating production system. International Journal of Production Economics, 2016, 173, 184-198.	5.1	44
18	Joint supplier selection, production and replenishment of an unreliable manufacturing-oriented supply chain. International Journal of Production Economics, 2017, 187, 53-67.	5.1	44

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19	Stochastic optimal production control problem with corrective maintenance. Computers and Industrial Engineering, 2004, 46, 865-875.	3.4	41
20	Hierarchical decision making in production and repair/replacement planning with imperfect repairs under uncertainties. European Journal of Operational Research, 2009, 198, 173-189.	3.5	40
21	Improved joint preventive maintenance and hedging point policy. International Journal of Production Economics, 2010, 127, 60-72.	5.1	39
22	Joint production, setup and preventive maintenance policies of unreliable two-product manufacturing systems. International Journal of Production Research, 2015, 53, 4668-4683.	4.9	39
23	Production control problem integrating overhaul and subcontracting strategies for a quality deteriorating manufacturing system. International Journal of Production Economics, 2016, 171, 134-150.	5.1	39
24	Production and replacement policies for a deteriorating manufacturing system under random demand and quality. European Journal of Operational Research, 2018, 264, 623-636.	3.5	39
25	Integrated embedding optimization applied to Salt Lake valley aquifers. Water Resources Research, 1994, 30, 817-832.	1.7	38
26	A simulation optimization approach in production planning of failure prone manufacturing systems. Journal of Intelligent Manufacturing, 2001, 12, 421-431.	4.4	38
27	A comparative study of pull control mechanisms for unreliable homogenous transfer lines. International Journal of Production Economics, 2010, 124, 241-251.	5.1	38
28	Operational level-based policies in production rate control of unreliable manufacturing systems with set-ups. International Journal of Production Research, 2006, 44, 545-567.	4.9	37
29	Production control and replenishment strategy with multiple suppliers. European Journal of Operational Research, 2011, 208, 67-74.	3.5	37
30	A joint production and carbon trading policy for unreliable manufacturing systems under cap-and-trade regulation. Journal of Cleaner Production, 2021, 293, 125973.	4.6	37
31	Production planning problem in manufacturing systems with general failure and repair time distributions. Production Planning and Control, 2000, 11, 581-588.	5.8	35
32	Production and setup policy optimization for hybrid manufacturing and remanufacturing systems. International Journal of Production Economics, 2017, 183, 322-333.	5.1	35
33	Joint replenishment and manufacturing activities control in a two stage unreliable supply chain. International Journal of Production Research, 2009, 47, 3231-3251.	4.9	34
34	Joint production and major maintenance planning policy of a manufacturing system with deteriorating quality. International Journal of Production Economics, 2013, 146, 575-587.	5.1	33
35	Subcontracting strategies with production and maintenance policies for a manufacturing system subject to progressive deterioration. International Journal of Production Economics, 2018, 200, 103-118.	5.1	32
36	Production rate control of an unreliable manufacturing cell with adjustable capacity. International Journal of Production Research, 2011, 49, 6539-6557.	4.9	30

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37	Optimal production scheduling for hybrid manufacturingâ€“remanufacturing systems with setups. <i>Journal of Manufacturing Systems</i> , 2015, 37, 703-714.	7.6	29
38	Production control of hybrid manufacturingâ€“remanufacturing systems under demand and return variations. <i>International Journal of Production Research</i> , 2019, 57, 100-123.	4.9	29
39	Integrated production, maintenance and quality control policy for unreliable manufacturing systems under dynamic inspection. <i>International Journal of Production Economics</i> , 2021, 236, 108140.	5.1	29
40	Production and setup control policy for unreliable hybrid manufacturing-remanufacturing systems. <i>Journal of Manufacturing Systems</i> , 2019, 50, 103-118.	7.6	28
41	Production and quality control policies for deteriorating manufacturing system. <i>International Journal of Production Research</i> , 2013, 51, 3443-3462.	4.9	26
42	Forecasting and maintenance problem under subcontracting constraint with transportation delay. <i>International Journal of Production Research</i> , 2014, 52, 6695-6716.	4.9	26
43	Environmental issue in an alternative productionâ€“maintenance control for unreliable manufacturing system subject to degradation. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 77, 383-398.	1.5	26
44	Joint production and subcontracting planning of unreliable multi-facility multi-product production systems. <i>Omega</i> , 2015, 50, 54-69.	3.6	26
45	Stochastic optimal control of random quality deteriorating hybrid manufacturing/remanufacturing systems. <i>Journal of Manufacturing Systems</i> , 2018, 49, 172-185.	7.6	26
46	Joint production and preventive maintenance controls for unreliable and imperfect manufacturing systems. <i>Journal of Manufacturing Systems</i> , 2021, 58, 263-279.	7.6	26
47	Production rate control for stochastic remanufacturing systems. <i>International Journal of Production Economics</i> , 2008, 112, 37-47.	5.1	24
48	Joint production and setup control policies: an extensive study addressing implementation issues via quantitative and qualitative criteria. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 72, 809-826.	1.5	24
49	Capacity estimation of a multi-product unreliable production line. <i>International Journal of Production Research</i> , 2002, 40, 4815-4834.	4.9	23
50	Production and set-up control of a failure-prone manufacturing system. <i>International Journal of Production Research</i> , 2004, 42, 1107-1130.	4.9	23
51	A production rate control policy for stochastic repair and remanufacturing systems. <i>International Journal of Production Economics</i> , 2009, 121, 39-48.	5.1	23
52	Production control of unreliable manufacturing systems producing defective items. <i>Journal of Quality in Maintenance Engineering</i> , 2011, 17, 238-253.	1.0	23
53	Integrated product specifications and productivity decision making in unreliable manufacturing systems. <i>International Journal of Production Economics</i> , 2011, 129, 32-42.	5.1	23
54	Production planning and repair/replacement switching policy for deteriorating manufacturing systems. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 57, 827-840.	1.5	22

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55	Joint production and quality control of unreliable batch manufacturing systems with rectifying inspection. <i>International Journal of Production Research</i> , 2014, 52, 4103-4117.	4.9	22
56	An algorithm for the cell formation and the machine selection problems in the design of a cellular manufacturing system. <i>International Journal of Production Research</i> , 1997, 35, 1857-1874.	4.9	20
57	Preventive maintenance and replacement policies for deteriorating production systems subject to imperfect repairs. <i>International Journal of Production Research</i> , 2011, 49, 3543-3563.	4.9	20
58	Replenishment, production and quality control strategies in three-stage supply chain. <i>International Journal of Production Economics</i> , 2015, 166, 90-102.	5.1	20
59	An Environmental Hedging Point Policy to control production rate and emissions in unreliable manufacturing systems. <i>International Journal of Production Research</i> , 2015, 53, 435-450.	4.9	20
60	Production planning of an unreliable hybrid manufacturing–remanufacturing system under uncertainties and supply constraints. <i>Computers and Industrial Engineering</i> , 2019, 136, 31-45.	3.4	20
61	Optimal production control policy in unreliable batch processing manufacturing systems with transportation delay. <i>International Journal of Production Research</i> , 2013, 51, 264-280.	4.9	19
62	Quality issue in forecasting problem of production and maintenance policy for production unit. <i>International Journal of Production Research</i> , 2018, 56, 6147-6163.	4.9	19
63	Production control of failure-prone manufacturing–remanufacturing systems using mixed dedicated and shared facilities. <i>International Journal of Production Economics</i> , 2020, 224, 107549.	5.1	19
64	Control policy simulation based on machine age in a failure prone one-machine, one-product manufacturing system. <i>International Journal of Production Research</i> , 1997, 35, 1431-1445.	4.9	18
65	Multiobjective optimization in an unreliable failure–prone manufacturing system. <i>Journal of Quality in Maintenance Engineering</i> , 2009, 15, 397-411.	1.0	18
66	Joint production, inspection and maintenance control policies for deteriorating system under quality constraint. <i>Journal of Manufacturing Systems</i> , 2021, 60, 585-607.	7.6	18
67	Production planning and control of unreliable hybrid manufacturing–remanufacturing systems with quality-based categorization of returns. <i>Journal of Cleaner Production</i> , 2021, 312, 127800.	4.6	18
68	A simulation optimization based control policy for failure prone one-machine, two-product manufacturing systems. <i>Computers and Industrial Engineering</i> , 2004, 46, 285-292.	3.4	17
69	Production control and combined discrete/continuous simulation modeling in failure-prone transfer lines. <i>International Journal of Production Research</i> , 2007, 45, 5667-5685.	4.9	17
70	Dynamic pricing models for ERP systems under network externality. <i>International Journal of Production Economics</i> , 2012, 135, 708-715.	5.1	17
71	Production Planning and Opportunistic Preventive Maintenance for Unreliable One-Machine Two-Products Manufacturing Systems. <i>IFAC-PapersOnLine</i> , 2015, 48, 478-483.	0.5	17
72	Production and replacement planning of a deteriorating remanufacturing system in a closed-loop configuration. <i>Journal of Manufacturing Systems</i> , 2019, 53, 234-248.	7.6	17

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73	Joint production preventive maintenance and dynamic inspection for a degrading manufacturing system. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 112, 221-239.	1.5	17
74	Ecological optimization for forecasting production and maintenance problem based on carbon tax. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 88, 1595-1606.	1.5	16
75	Set-up and production planning in hybrid manufacturingâ€“remanufacturing systems with large returns. <i>International Journal of Production Research</i> , 2017, 55, 3766-3787.	4.9	16
76	Optimal Production Control of Hybrid Manufacturing/Remanufacturing Failure-Prone Systems under Diffusion-Type Demand. <i>Applied Mathematics</i> , 2013, 04, 550-559.	0.1	15
77	Maintenance on leasing sales strategies for manufacturing/remanufacturing system with increasing failure rate and carbon emission. <i>International Journal of Production Research</i> , 2020, 58, 6616-6637.	4.9	14
78	Kalman filter based production control of a failure-prone single-machine single-product manufacturing system with imprecise demand and inventory information. <i>Journal of Manufacturing Systems</i> , 2020, 56, 558-572.	7.6	14
79	Optimization of production control policies in failure-prone homogenous transfer lines. <i>IIE Transactions</i> , 2009, 41, 209-222.	2.1	13
80	Joint hybrid repair and remanufacturing systems and supply control. <i>International Journal of Production Research</i> , 2010, 48, 4101-4121.	4.9	13
81	Environmental hedging point policies for collaborative unreliable manufacturing systems with variant emitting level technologies. <i>Journal of Cleaner Production</i> , 2020, 250, 119539.	4.6	13
82	Planning tools for managing the supply chain. <i>Computers and Industrial Engineering</i> , 2004, 46, 763-779.	3.4	11
83	Availability and throughput of unreliable, unbuffered production lines with non-homogeneous deterministic processing times. <i>International Journal of Production Research</i> , 2008, 46, 5651-5677.	4.9	11
84	Joint production control and product quality decision making in a failure prone multiple-product manufacturing system. <i>International Journal of Production Research</i> , 2012, 50, 3661-3672.	4.9	11
85	Integrated quality strategy in production and raw material replenishment in a manufacturing-oriented supply chain. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 81, 335-348.	1.5	11
86	Production and uncertain green subcontracting control for an unreliable manufacturing system facing emissions. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 83, 1787-1799.	1.5	11
87	Production control of unreliable manufacturing systems with perishable inventory. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 116, 2473-2496.	1.5	11
88	Production and changeover control policies of a class of failure prone buffered flow-shops. <i>Production Planning and Control</i> , 2009, 20, 785-800.	5.8	10
89	Optimal maintenance/production policy for a manufacturing system subjected to random failure and calling upon several subcontractors. <i>International Journal of Management Science and Engineering Management</i> , 2010, 5, 261-267.	2.6	10
90	Optimal production and corrective maintenance in a failure-prone manufacturing system under variable demand. <i>Flexible Services and Manufacturing Journal</i> , 2019, 31, 894-925.	1.9	10

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91	Throughput assessment of mixed-model flexible transfer lines with unreliable machines. <i>International Journal of Production Economics</i> , 2009, 122, 619-627.	5.1	9
92	Age-dependent production and replacement strategies in failure-prone manufacturing systems. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2017, 231, 540-554.	1.5	9
93	Transport carriers' cooperation on the last-mile delivery in urban areas. <i>Transportation</i> , 2021, 48, 2401-2431.	2.1	9
94	Dynamic optimal control and simulation for unreliable manufacturing systems under perishable product and shelf life variability. <i>International Journal of Production Economics</i> , 2022, 247, 108417.	5.1	9
95	Improved preventive maintenance in the framework of forecasting problem under subcontractor constraint. <i>International Journal of Production Research</i> , 2017, 55, 4557-4600.	4.9	7
96	Joint optimization of production and maintenance planning with an environmental impact study. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 93, 1269-1282.	1.5	7
97	Failure-prone manufacturing systems with setups: feasibility and optimality under various hypotheses about perturbations and setup interplay. <i>International Journal of Mathematics in Operational Research</i> , 2015, 7, 681.	0.1	6
98	Integrated production-delivery control policy for an unreliable manufacturing system and multiple retailers. <i>International Journal of Production Economics</i> , 2022, 245, 108383.	5.1	6
99	Integrated production-transshipment control policy for a two-location unreliable manufacturing system. <i>International Journal of Production Economics</i> , 2022, 247, 108440.	5.1	6
100	Bombardier Turned to Simulation to Validate the CF-18 Maintenance Program. <i>Interfaces</i> , 1997, 27, 22-34.	1.6	4
101	Control of a repair and overhaul system with probabilistic parts availability. <i>Production Planning and Control</i> , 2009, 20, 57-67.	5.8	4
102	Production control of hybrid repair and remanufacturing systems under general conditions. <i>Journal of Quality in Maintenance Engineering</i> , 2009, 15, 383-396.	1.0	4
103	Integrated production and maintenance control policies for failure-prone manufacturing systems producing perishable products. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 4635-4657.	1.5	4
104	Production control in manufacturing systems with perishable products under periodic demand. <i>Journal of Manufacturing Systems</i> , 2022, 63, 288-303.	7.6	4
105	Développement d'une politique intégrée de contrôle des taux de production et de maintenance corrective avec diagnostic. <i>Infor</i> , 2007, 45, 197-207.	0.5	3
106	Optimisation of the control policy for a stochastic remanufacturing system with an unreliable replacement parts supply. <i>International Journal of Simulation and Process Modelling</i> , 2009, 5, 205.	0.1	3
107	Impact of random delay on Replenishment and production control strategies. , 2011, , .		3
108	Production and setup policy optimization for hybrid manufacturing-remanufacturing systems. <i>IFAC-PapersOnLine</i> , 2015, 48, 2021-2026.	0.5	3

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109	Joint Production and Replacement Planning for an Unreliable Manufacturing System Subject to Random Demand and Quality. IFAC-PapersOnLine, 2018, 51, 951-956.	0.5	3
110	Production and subcontracting control for an unreliable manufacturing system with setups. International Journal of Production Research, 2020, 58, 3570-3588.	4.9	3
111	Availability modelling and analysis of multi-product flexible transfer lines subject to random failures. International Journal of Advanced Manufacturing Technology, 2010, 50, 329-341.	1.5	2
112	Joint Production and Replacement Strategy for a Quality Deteriorating Failure-Prone Manufacturing System. IFAC-PapersOnLine, 2015, 48, 1198-1203.	0.5	2
113	Production Policy Optimization in Flexible Manufacturing-Remanufacturing Systems. IFAC-PapersOnLine, 2016, 49, 295-300.	0.5	2
114	Production and changeover control policies of failure prone buffered flow-shops. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1108-1113.	0.4	1
115	Joint production and supply control in three levels flexible manufacturing systems. Journal of Intelligent Manufacturing, 2010, 21, 195-204.	4.4	1
116	Quality and production control in multiple-product unreliable manufacturing system. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 981-986.	0.4	1
117	Production and quality control of Hybrid Manufacturing Remanufacturing System with stochastic return. , 2021, , .		1
118	JOINT PRODUCTION AND SUPPLY CONTROL IN THREE LEVELS FLEXIBLE MANUFACTURING SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 149-154.	0.4	0