

Jingshan Li

List of Publications by Year in descending order

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Version: 2024-02-01

148
papers

2,953
citations

212478

28
h-index

263392

45
g-index

152
all docs

152
docs citations

152
times ranked

1643
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of assembly-time performance (ATP) in manufacturing operations with collaborative robots: a systems approach. <i>International Journal of Production Research</i> , 2022, 60, 277-296.	4.9	8
2	Modeling, Analysis, and Improvement of Batch-Discrete Manufacturing Systems: A Systems Approach. <i>IEEE Transactions on Automation Science and Engineering</i> , 2022, 19, 1567-1585.	3.4	3
3	Energy and Productivity Analysis in Serial Production Lines With Setups. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 7108-7115.	3.3	2
4	Modeling and Analysis of Operating Room Workflow in a Tertiary A Hospital. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 7006-7013.	3.3	3
5	Special Issue on Analysis, Design, and Optimization in Smart and Connected Production and Service Systems. <i>International Journal of Production Research</i> , 2022, 60, 3945-3947.	4.9	0
6	Transients in flexible manufacturing systems with setups and batch operations: Modeling, analysis, and design. <i>IIEE Transactions</i> , 2021, 53, 523-540.	1.6	7
7	Transient Analysis of Multiproduct Bernoulli Serial Lines With Setups. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021, 18, 135-150.	3.4	9
8	A prediction and interpretation framework of acute kidney injury in critical care. <i>Journal of Biomedical Informatics</i> , 2021, 113, 103653.	2.5	13
9	A Markov chain model for analysis of physician workflow in primary care clinics. <i>Health Care Management Science</i> , 2021, 24, 72-91.	1.5	6
10	Health Care 4.0: A vision for smart and connected health care. <i>IIEE Transactions on Healthcare Systems Engineering</i> , 2021, 11, 1-10.	1.2	50
11	From Manual Operation to Collaborative Robot Assembly: An Integrated Model of Productivity and Ergonomic Performance. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 895-902.	3.3	14
12	Reducing Fall-Related Revisits for Elderly Diabetes Patients in Emergency Departments: A Transition Flow Model. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 5642-5649.	3.3	0
13	Machine Learning in Manufacturing Ergonomics: Recent Advances, Challenges, and Opportunities. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 5745-5752.	3.3	18
14	Reducing Fall-related Revisits for Elderly Diabetes Patients in Emergency Departments: A Transition Flow Model. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 5642-5649.	0.0	0
15	A two-level iteration approach for modeling and analysis of rapid response process with multiple deteriorating patients. <i>Flexible Services and Manufacturing Journal</i> , 2020, 32, 35-71.	1.9	2
16	Performance evaluation of flow lines with non-identical and unreliable parallel machines and finite buffers. <i>International Journal of Production Research</i> , 2020, 58, 3881-3904.	4.9	11
17	Workforce Allocation in Motorcycle Transmission Assembly Lines: A Case Study on Modeling, Analysis, and Improvement. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 4164-4171.	3.3	5
18	A Markov Chain Model for Transient Analysis of Handoff Process in Emergency Departments. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 4360-4367.	3.3	4

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19	Editorial for the special issue on "Modelling, simulation, and optimization in health care". Flexible Services and Manufacturing Journal, 2020, 32, 1-5.	1.9	0
20	Improving Discharge Process at the University of Wisconsin Hospital: A System-Theoretic Method. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1732-1749.	3.4	4
21	An Analytical Framework for Modeling, Analysis, and Improvement of Team Communication and Collaboration Process in Primary Care Clinics. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1148-1162.	3.4	2
22	Reducing COPD readmissions through predictive modeling and incentive-based interventions. Health Care Management Science, 2019, 22, 121-139.	1.5	11
23	Improving productivity of a multi-product machining line at a motorcycle manufacturing plant. International Journal of Production Research, 2019, 57, 470-487.	4.9	17
24	Modeling and Analysis of Postdischarge Intervention Process to Reduce COPD Readmissions. IEEE Transactions on Automation Science and Engineering, 2019, 16, 21-34.	3.4	6
25	A Queueing Network Model for Analysis of Patient Transitions Within Hospitals. IEEE Transactions on Automation Science and Engineering, 2019, 16, 6-20.	3.4	4
26	Closed-Loop Production Lines With Geometric Reliability Machines: Modeling, Analysis, and Application. IEEE Robotics and Automation Letters, 2018, 3, 704-711.	3.3	4
27	Joint visit in primary care clinics: Modeling, analysis, and an application study. IIEE Transactions on Healthcare Systems Engineering, 2018, 8, 93-109.	1.2	5
28	Performance evaluation of operating room schedules in orthopedic surgery. Flexible Services and Manufacturing Journal, 2018, 30, 198-223.	1.9	8
29	A System-Theoretic Method for Modeling, Analysis, and Improvement of Lung Cancer Diagnosis-to-Surgery Process. IEEE Transactions on Automation Science and Engineering, 2018, 15, 531-544.	3.4	11
30	Analysis of closed-loop production lines with Bernoulli reliability machines: Theory and application. IIEE Transactions, 2018, 50, 143-160.	1.6	15
31	Workload balancing: staffing ratio analysis for primary care redesign. Flexible Services and Manufacturing Journal, 2018, 30, 6-29.	1.9	9
32	The impact of e-visits on patient access to primary care. Health Care Management Science, 2018, 21, 475-491.	1.5	21
33	Production Control to Reduce Starvation in a Partially Flexible Production-Inventory System. IEEE Transactions on Automatic Control, 2018, 63, 477-491.	3.6	20
34	Analysis, design, and management of health care systems. Flexible Services and Manufacturing Journal, 2018, 30, 1-5.	1.9	2
35	Reducing Bottlenecks to Improve the Efficiency of the Lung Cancer Care Delivery Process: A Process Engineering Modeling Approach to Patient-Centered Care. Journal of Medical Systems, 2018, 42, 16.	2.2	5
36	Pragmatic trial of a multidisciplinary lung cancer care model in a community healthcare setting: study design, implementation evaluation, and baseline clinical results. Translational Lung Cancer Research, 2018, 7, 88-102.	1.3	14

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37	Bottleneck Analysis to Improve Multidisciplinary Rounding Process in Intensive Care Units at Mayo Clinic. IEEE Robotics and Automation Letters, 2018, 3, 2678-2685.	3.3	4
38	Reducing COPD Readmissions: A Causal Bayesian Network Model. IEEE Robotics and Automation Letters, 2018, 3, 4046-4053.	3.3	7
39	Scheduling policies in flexible Bernoulli lines with dedicated finite buffers. Journal of Manufacturing Systems, 2018, 48, 33-48.	7.6	14
40	Flexible Serial Lines With Setups: Analysis, Improvement, and Application. IEEE Robotics and Automation Letters, 2017, 2, 120-127.	3.3	17
41	Transient Analysis of Serial Production Lines With Perishable Products: Bernoulli Reliability Model. IEEE Transactions on Automatic Control, 2017, 62, 694-707.	3.6	52
42	Electronic Visits in Primary Care: Modeling, Analysis, and Scheduling Policies. IEEE Transactions on Automation Science and Engineering, 2017, 14, 1451-1466.	3.4	24
43	From production systems to health care delivery systems: a retrospective look on similarities, difficulties and opportunities. International Journal of Production Research, 2017, 55, 4212-4227.	4.9	22
44	Optimal Planning of Plant Flexibility: Problem Formulation and Performance Analysis. IEEE Transactions on Automation Science and Engineering, 2017, 14, 718-731.	3.4	11
45	Simulation Modeling of Hospital Discharge Process. , 2017, , 113-134.		1
46	Growth Curves of American Children Differ Significantly from CDC Reference Standards. , 2017, , 281-305.		0
47	Reducing energy consumption in serial production lines with Bernoulli reliability machines. International Journal of Production Research, 2017, 55, 7356-7379.	4.9	41
48	Selective Assembly System With Unreliable Bernoulli Machines and Finite Buffers. IEEE Transactions on Automation Science and Engineering, 2017, 14, 171-184.	3.4	23
49	A Sub-Optimal Control Policy in a Two-Product Door Manufacturing Line With Geometric Reliability Machines. IEEE Robotics and Automation Letters, 2017, 2, 157-164.	3.3	8
50	Iteration algorithms for performance evaluation and buffer design of Bernoulli serial lines with waiting time constraints. , 2017, , .		0
51	Optimal planning of plant flexibility: Problem formulation and performance analysis. , 2017, , .		0
52	An energy and productivity optimization model in Bernoulli serial lines. , 2016, , .		0
53	An iterative method for analysis of joint visit model at Dean East Clinic. , 2016, , .		0
54	Continuous improvement in manufacturing and service systems. International Journal of Production Research, 2016, 54, 6281-6284.	4.9	15

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55	Analysis of Resource Intensive Activity Volumes in us Hospitals. , 2016, , 373-397.		3
56	Discrete-Event Simulation for Primary Care Redesign: Review and a Case Study. , 2016, , 399-426.		7
57	Analysis of closed loop production lines in automotive body shops. , 2016, , .		2
58	Design and analysis of gastroenterology (GI) clinic in Digestive Health Center of University of Wisconsin Health. Flexible Services and Manufacturing Journal, 2016, 28, 90-119.	1.9	16
59	Efficient Algorithms for Analysis and Improvement of Flexible Manufacturing Systems. IEEE Transactions on Automation Science and Engineering, 2016, 13, 105-121.	3.4	32
60	Performance Evaluation of Modularized Global Equalization System for Lithium-Ion Battery Packs. IEEE Transactions on Automation Science and Engineering, 2016, 13, 986-996.	3.4	39
61	Improving energy efficiency in Bernoulli serial lines: an integrated model. International Journal of Production Research, 2016, 54, 3414-3428.	4.9	29
62	Modeling and Analysis of Ward Patient Rescue Process on the Hospital Floor. IEEE Transactions on Automation Science and Engineering, 2016, 13, 514-528.	3.4	12
63	A Hierarchical structure of key performance indicators for operation management and continuous improvement in production systems. International Journal of Production Research, 2016, 54, 6333-6350.	4.9	101
64	Health Care Systems Engineering. Flexible Services and Manufacturing Journal, 2016, 28, 1-4.	1.9	9
65	A System-Theoretic Approach to Modeling and Analysis of Mammography Testing Process. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 126-138.	5.9	28
66	Analysis and Improvement of Multiproduct Bernoulli Serial Lines: Theory and Application. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2015, 45, 1218-1230.	5.9	38
67	Medication Error Propagation In Intensive Care Units. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 518-521.	0.2	3
68	Plant flexibility planning: Problem formulation and performance estimation. , 2015, , .		0
69	Analysis of key operation performance data in manufacturing systems. , 2015, , .		5
70	Analysis of multi-product manufacturing systems with arbitrary processing times. International Journal of Production Research, 2015, 53, 983-1001.	4.9	14
71	Modeling and analysis of e-visits in primary care. , 2015, , .		2
72	Modeling, analysis, and improvement of integrated productivity and quality system in battery manufacturing. IIE Transactions, 2015, 47, 1313-1328.	2.1	27

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73	Guest Editorial Special Section on the 2013 International Conference on Automation Science and Engineering. IEEE Transactions on Automation Science and Engineering, 2015, 12, 3-3.	3.4	3
74	Bottleneck Analysis to Reduce Surgical Flow Disruptions: Theory and Application. IEEE Transactions on Automation Science and Engineering, 2015, 12, 127-139.	3.4	17
75	Computer modeling of lung cancer diagnosis-to-treatment process. Translational Lung Cancer Research, 2015, 4, 404-14.	1.3	8
76	An analytical model for performance evaluation of operating room schedules in orthopedic surgery. , 2014, , .		1
77	Analysis and improvement of multi-product assembly systems: an application study at a furniture manufacturing plant. International Journal of Production Research, 2014, 52, 6399-6413.	4.9	28
78	Performance evaluation of multi-product manufacturing systems with asynchronous exponential machines. , 2014, , .		2
79	Primary care redesign: A simulation study at a pediatric clinic. , 2014, , .		1
80	Modeling and Analysis of Care Delivery Services Within Patient Rooms: A System-Theoretic Approach. IEEE Transactions on Automation Science and Engineering, 2014, 11, 379-393.	3.4	37
81	Review of structures and control of battery-supercapacitor hybrid energy storage system for electric vehicles. , 2014, , .		31
82	Modularized global equalization of battery cells for electric vehicles. , 2014, , .		2
83	Analysis of Multiproduct Manufacturing Systems With Homogeneous Exponential Machines. IEEE Transactions on Automation Science and Engineering, 2014, 11, 828-838.	3.4	20
84	A Quality Flow Model in Battery Manufacturing Systems for Electric Vehicles. IEEE Transactions on Automation Science and Engineering, 2014, 11, 230-244.	3.4	36
85	Continuous improvement at Toyota manufacturing plant: applications of production systems engineering methods. International Journal of Production Research, 2013, 51, 7235-7249.	4.9	40
86	Quality flow model in automotive paint shops. International Journal of Production Research, 2013, 51, 6470-6483.	4.9	21
87	Survey of recent advances on the interface between production system design and quality. IIE Transactions, 2013, 45, 557-574.	2.1	65
88	Modeling and analysis of hospital inpatient rescue process: A Markov chain approach. , 2013, , .		0
89	Analysis of multi-product manufacturing systems with homogeneous exponential machines. , 2013, , .		1
90	A Markov chain approach to study flow disruptions on surgery in emergency care. , 2013, , .		1

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91	Integrated model of productivity and quality in serial production lines with repairs: Performance evaluation and bottleneck identification. , 2013, , .		0
92	Resilient Control for Serial Manufacturing Networks With Advance Notice of Disruptions. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 98-114.	5.9	34
93	Virtual Battery: A Battery Simulation Framework for Electric Vehicles. IEEE Transactions on Automation Science and Engineering, 2013, 10, 5-15.	3.4	24
94	Modeling and analysis of mammography testing process at a breast imaging center of University of Wisconsin medical foundation. , 2013, , .		1
95	Integration of manufacturing system design and quality management. IIE Transactions, 2013, 45, 555-556.	2.1	3
96	Dynamic production control of door manufacturing line at an automotive assembly plant. , 2013, , .		0
97	Production systems engineering: main results and recommendations for management. International Journal of Production Research, 2013, 51, 7209-7234.	4.9	17
98	Quality bottleneck transitions in flexible manufacturing systems with batch productions. IIE Transactions, 2013, 45, 190-205.	2.1	25
99	Modeling, Analysis, and Improvement of Door Production Line at an Automotive Body Shop. , 2013, , .		2
100	The robustness of scheduling policies in multi-product manufacturing systems with sequence-dependent setup times and finite buffers. , 2012, , .		1
101	Scheduling policies in multi-product manufacturing systems with sequence-dependent setup times and finite buffers. International Journal of Production Research, 2012, 50, 7479-7492.	4.9	27
102	Indicators for quality improvability and bottleneck sequence in flexible manufacturing systems with batch production. International Journal of Production Research, 2012, 50, 6388-6402.	4.9	26
103	The robustness of scheduling policies in multi-product manufacturing systems with sequence-dependent setup times and finite buffers. Computers and Industrial Engineering, 2012, 63, 1145-1153.	3.4	29
104	Improving rapid response operations in acute care delivery - part II: Continuous improvement and case study. , 2012, , .		0
105	Improving rapid response operations in acute care delivery - part I: System modeling and performance evaluation. , 2012, , .		0
106	Modeling and Analysis of Rapid Response Process to Improve Patient Safety in Acute Care. IEEE Transactions on Automation Science and Engineering, 2012, 9, 215-225.	3.4	22
107	Reducing Length of Stay in Emergency Department: A Simulation Study at a Community Hospital. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2012, 42, 1314-1322.	3.4	60
108	Re-entrant lines with unreliable asynchronous machines and finite buffers: performance approximation and bottleneck identification. International Journal of Production Research, 2012, 50, 977-990.	4.9	16

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109	Modeling and analysis of work flow and staffing level in a computed tomography division of University of Wisconsin Medical Foundation. Health Care Management Science, 2012, 15, 108-120.	1.5	38
110	A real-time maintenance scheduling policy in serial production lines. , 2011, , .		0
111	Scheduling policies in multi-product manufacturing systems with sequence-dependent setup times. , 2011, , .		0
112	Virtual battery: A simulation framework for batteries in electric vehicles. , 2011, , .		0
113	Production system design to achieve energy savings in an automotive paint shop. International Journal of Production Research, 2011, 49, 6769-6785.	4.9	34
114	Multi-product manufacturing systems with sequence-dependent setups: Performance evaluation and system properties. , 2011, , .		6
115	Modeling and analysis of care delivery services within patient rooms. , 2011, , .		1
116	Performance approximation of re-entrant lines with unreliable exponential machines and finite buffers. International Journal of Advanced Manufacturing Technology, 2010, 49, 1151-1159.	1.5	4
117	Quality Analysis in Flexible Manufacturing Systems With Batch Productions: Performance Evaluation and Nonmonotonic Properties. IEEE Transactions on Automation Science and Engineering, 2010, 7, 671-676.	3.4	20
118	Simulation study of a bottleneck-based dispatching policy for a maintenance workforce. International Journal of Production Research, 2010, 48, 1745-1763.	4.9	28
119	Transient analysis of dairy filling and packing production lines. , 2010, , .		0
120	Achieving resilience for a class of serial production networks. , 2010, , .		3
121	Guest Editorial Automation in Automotive Manufacturing. IEEE Transactions on Automation Science and Engineering, 2010, 7, 721-723.	3.4	2
122	Split and merge production systems: performance analysis and structural properties. IIE Transactions, 2010, 42, 422-434.	2.1	94
123	Hybrid/electric vehicle battery manufacturing: The state-of-the-art. , 2010, , .		10
124	Approximate Analysis of Reentrant Lines With Bernoulli Reliability Model. IEEE Transactions on Automation Science and Engineering, 2010, 7, 708-715.	3.4	26
125	Product Sequencing With Respect to Quality in Flexible Manufacturing Systems With Batch Operations. IEEE Transactions on Automation Science and Engineering, 2010, 7, 776-790.	3.4	25
126	Efficient Simulation Method for General Assembly Systems With Material Handling Based on Aggregated Event-Scheduling. IEEE Transactions on Automation Science and Engineering, 2010, 7, 762-775.	3.4	14

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127	Bottlenecks in Bernoulli Serial Lines With Rework. IEEE Transactions on Automation Science and Engineering, 2010, 7, 208-217.	3.4	48
128	Formulation and a Simulation-Based Algorithm for Line-Side Buffer Assignment Problem in Systems of General Assembly Line With Material Handling. IEEE Transactions on Automation Science and Engineering, 2010, 7, 902-920.	3.4	13
129	Modeling and analysis of hospital emergency department: An analytical framework and problem formulation. , 2010, , .		3
130	Monotonic and non-monotonic properties of product quality in flexible manufacturing systems with batch operations. , 2009, , .		1
131	Performance analysis of split and merge production systems. , 2009, , .		1
132	Throughput analysis of production systems: recent advances and future topics. International Journal of Production Research, 2009, 47, 3823-3851.	4.9	298
133	Modelling and analysis of split and merge production systems with Bernoulli reliability machines. International Journal of Production Research, 2009, 47, 4373-4397.	4.9	21
134	A modeling and aggregation approach for analyzing resilience of manufacturing enterprises. , 2009, , .		5
135	Production Systems Engineering. , 2009, , .		278
136	Towards modeling of resilience dynamics in manufacturing enterprises: Literature review and problem formulation. , 2008, , .		17
137	Modeling and analysis of Bernoulli production systems with split and merge. , 2008, , .		1
138	Manufacturing System Design to Improve Quality Buy Rate: An Automotive Paint Shop Application Study. IEEE Transactions on Automation Science and Engineering, 2007, 4, 75-79.	3.4	35
139	Quality Evaluation in Flexible Machining Systems: A Flexible Fixture Case Study. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	0
140	Approximate Analysis of Re-Entrant Lines with Bernoulli Reliability Models. , 2007, , .		4
141	On the coefficients of variation of uptime and downtime in manufacturing equipment. Mathematical Problems in Engineering, 2005, 2005, 1-6.	0.6	73
142	Overlapping Decomposition: A System-Theoretic Method for Modeling and Analysis of Complex Manufacturing Systems. IEEE Transactions on Automation Science and Engineering, 2005, 2, 40-53.	3.4	96
143	Modelling and analysis of a multiple product manufacturing system with split and merge. International Journal of Production Research, 2005, 43, 4049-4066.	4.9	52
144	Modeling and Analysis of Manufacturing Systems With Parallel Lines. IEEE Transactions on Automatic Control, 2004, 49, 1824-1829.	3.6	39

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145	Throughput Analysis in Automotive Paint Shops: A Case Study. IEEE Transactions on Automation Science and Engineering, 2004, 1, 90-98.	3.4	52
146	Performance analysis of production systems with rework loops. IIE Transactions, 2004, 36, 755-765.	2.1	69
147	An integrated opioid prescription optimization framework for total joint replacement surgery patients. IIE Transactions on Healthcare Systems Engineering, 0, , 1-15.	1.2	0
148	Flow time in a human-robot collaborative assembly process: Performance evaluation, system properties, and a case study. IIE Transactions, 0, , 1-13.	1.6	0