Xiaolan Xie

List of Publications by Year
in descending order

53 papers	849 citations	516710 16 h-index	526287 27 g-index
53 all docs	53 docs citations	53 times ranked	813 citing authors

#	Article	IF	Citations
1	Column generation approach to operating theater planning with elective and emergency patients. IIE Transactions, 2008, 40, 838-852.	2.1	91
2	Hybridization of tabu search with feasible and infeasible local searches for periodic home health care logistics. Omega, 2014, 47, 17-32.	5.9	90
3	A stochastic optimization model for shift scheduling in emergency departments. Health Care Management Science, 2015, 18, 289-302.	2.6	58
4	Supply chain network design with unreliable suppliers: a Lagrangian relaxation-based approach. International Journal of Production Research, 2013, 51, 6435-6454.	7.5	56
5	A Modeling and Simulation Framework for Health Care Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 30-46.	9.3	43
6	Simulation-based optimization for surgery appointment scheduling of multiple operating rooms. IIE Transactions, 2015, 47, 998-1012.	2.1	42
7	A Monte Carlo Optimization and Dynamic Programming Approach for Managing MRI Examinations of Stroke Patients. IEEE Transactions on Automatic Control, 2011, 56, 2515-2529.	5.7	29
8	Optimal Process Mining for Large and Complex Event Logs. IEEE Transactions on Automation Science and Engineering, 2018, 15, 1309-1325.	5.2	27
9	Optimal Dynamic Outpatient Scheduling for a Diagnostic Facility With Two Waiting Time Targets. IEEE Transactions on Automatic Control, 2016, 61, 3725-3739.	5.7	25
10	Dynamic Surgery Assignment of Multiple Operating Rooms With Planned Surgeon Arrival Times. IEEE Transactions on Automation Science and Engineering, 2014, 11, 680-691.	5.2	24
11	Managing appointments with waiting time targets and random walk-ins. Omega, 2020, 95, 102062.	5.9	22
12	Design of Stochastic Distribution Networks Using Lagrangian Relaxation. IEEE Transactions on Automation Science and Engineering, 2008, 5, 597-608.	5.2	20
13	Appointment scheduling of oncology outpatients. , 2011, , .		20
14	Discovery of patient pathways from a national hospital database using process mining and integer linear programming. , 2015, , .		20
15	Physician Staffing for Emergency Departments with Time-Varying Demand. INFORMS Journal on Computing, 2018, 30, 588-607.	1.7	20
16	Operations research in healthcare. International Journal of Production Research, 2015, 53, 7173-7176.	7.5	19
17	Mathematical Programming Models for Annual and Weekly Bloodmobile Collection Planning. IEEE Transactions on Automation Science and Engineering, 2015, 12, 96-105.	5.2	19
18	Home health-care network design: Location and configuration of home health-care centers. Operations Research for Health Care, 2018, 17, 28-41.	1.2	19

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19	Branch and Price for Chance-Constrained Bin Packing. INFORMS Journal on Computing, 2020, 32, 547-564.	1.7	18
20	Multiresource Shop Scheduling With Resource Flexibility and Blocking. IEEE Transactions on Automation Science and Engineering, 2011, 8, 175-189.	5.2	16
21	Dynamic appointment scheduling with wait-dependent abandonment. European Journal of Operational Research, 2018, 265, 975-984.	5.7	16
22	Dynamic Capacity Planning and Location of Hierarchical Service Networks Under Service Level Constraints. IEEE Transactions on Automation Science and Engineering, 2014, 11, 863-880.	5.2	15
23	A stochastic approximation approach for managing appointments in the presence of unpunctual patients, multiple servers and no-shows. International Journal of Production Research, 2021, 59, 2996-3016.	7.5	12
24	Optimal process mining of timed event logs. Information Sciences, 2020, 528, 58-78.	6.9	11
25	Multi-period capacity planning for maternity facilities in a perinatal network: A queuing and optimization approach. , 2012, , .		10
26	Addressing healthcare operational deficiencies using stochastic and dynamic programming. International Journal of Production Research, 2019, 57, 4371-4390.	7.5	10
27	Perturbation analysis and optimisation of continuous flow transfer lines with delay. International Journal of Production Research, 2013, 51, 7250-7269.	7.5	9
28	Integrated facility location and supplier selection decisions in a distribution network design. , 2006, , .		8
29	MIXED MACHINE LEARNING AND AGENT-BASED SIMULATION FOR RESPITE CARE EVALUATION. , 2018, , .		8
30	Hospitalization admission control of emergency patients using Markovian Decision Processes and discrete event simulation. , 2014, , .		7
31	Operational research applied to health services: a special volume dedicated to the international conference ORAHS'2007. Annals of Operations Research, 2010, 178, 1-4.	4.1	6
32	Appointment scheduling and the effects of customer congestion on service. IISE Transactions, 2019, 51, 1075-1090.	2.4	6
33	Automatic and Explainable Labeling of Medical Event Logs With Autoencoding. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 3076-3084.	6.3	6
34	Appointment window scheduling with wait-dependent abandonment for elective inpatient admission. International Journal of Production Research, 2022, 60, 5977-5993.	7.5	6
35	Weekly home health care logistics. , 2013, , .		5
36	Performance evaluation of elective inpatient admission with delay announcement. International Journal of Production Research, 2015, 53, 4476-4491.	7.5	5

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37	Stochastic simulation of clinical pathways from raw health databases. , 2017, , .		5
38	Real-time scheduling of semi-urgent patients under waiting time targets. International Journal of Production Research, 2020, 58, 1127-1143.	7.5	5
39	A timed Petri net approach for verification of Territorial Healthcare Information Systems. , 2016, , .		3
40	Dynamic Admission Quota Control With Controllable and Uncontrollable Demands and Random Service Time. IEEE Transactions on Automatic Control, 2021, 66, 2925-2932.	5.7	3
41	Weekly scheduling of emergency department physicians to cope with time-varying demand. IISE Transactions, 0, , 1-30.	2.4	3
42	MRI reservation for neurovascular patients. , 2009, , .		2
43	Profiling health prevention population for hypertension screening and ECG test rationing. , 2018, , .		2
44	A Benders Decomposition Approach for Appointment Scheduling of Unpunctual Patients in a Multi-Server Setting. , 2019, , .		2
45	A Decision-Tree-Based Bayesian Approach for Chance-Constrained Health Prevention Budget Rationing. IEEE Transactions on Automation Science and Engineering, 2022, 19, 2322-2338.	5.2	2
46	Experimental study of Magnetic Resonance Imaging examination reservation process for stroke patients. , 2010, , .		1
47	Mission assignment and scheduling for a team of service robots using evolutionary algorithms. , 2010, , .		1
48	Planning and advance cancellation of MRI examinations of stroke patients. , 2010, , .		1
49	An optimization-simulation approach for long term care structure assignment problem for elderly people. , 2017, , .		1
50	Simulation-based Optimization of Failure-prone Continuous Flow Lines. , 2013, , 97-125.		0
51	Admission Control Policies in Loss Networks. IEEE Transactions on Automation Science and Engineering, 2022, 19, 3152-3171.	5.2	0
52	A Stochastic Optimization Approach to the Long-Term Care Structure Assignment Problem for Elderly People. IEEE Transactions on Automation Science and Engineering, 2022, 19, 1898-1912.	5.2	0
53	Managing Advance Admission Requests for Obstetric Care. INFORMS Journal on Computing, 2022, 34, 1224-1239.	1.7	0