

Siyang Gao

List of Publications by Year in descending order

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33
papers

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759233

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263
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Convergence of Optimal Computing Budget Allocation Algorithms. , 2021, , .		1
2	Wafer Defect Inspection Optimization With Partial Coverage--A Numerical Approach. IEEE Transactions on Automation Science and Engineering, 2020, , 1-12.	5.2	2
3	Advancing Constrained Ranking and Selection With Regression in Partitioned Domains. IEEE Transactions on Automation Science and Engineering, 2019, 16, 382-391.	5.2	11
4	Efficient simulation budget allocation for subset selection using regression metamodels. Automatica, 2019, 106, 192-200.	5.0	6
5	Automatic Design of Dispatching Rules for Real-time optimization of Complex Production Systems. , 2019, , .		5
6	Selecting an Optimal Subset with Regression Metamodels. , 2019, , .		1
7	A worst-case formulation for constrained ranking and selection with input uncertainty. Naval Research Logistics, 2019, 66, 648-662.	2.2	5
8	Selecting the Optimal System Design under Covariates. , 2019, , .		18
9	Simulation Budget Allocation for Selecting the Top-m Designs With Input Uncertainty. IEEE Transactions on Automatic Control, 2018, 63, 3127-3134.	5.7	36
10	A new strategy for selecting good enough designs using optimal computing budget allocation. Journal of Simulation, 2018, 12, 238-247.	1.5	6
11	Optimizing HIV Interventions for Multiplex Social Networks via Partition-Based Random Search. IEEE Transactions on Cybernetics, 2018, 48, 3411-3419.	9.5	19
12	Efficient Feasibility Determination With Multiple Performance Measure Constraints. IEEE Transactions on Automatic Control, 2017, 62, 113-122.	5.7	27
13	A Sequential Budget Allocation Framework for Simulation Optimization. IEEE Transactions on Automation Science and Engineering, 2017, 14, 1185-1194.	5.2	13
14	A Partition-Based Random Search for Stochastic Constrained Optimization via Simulation. IEEE Transactions on Automatic Control, 2017, 62, 740-752.	5.7	18
15	Robust ranking and selection with optimal computing budget allocation. Automatica, 2017, 81, 30-36.	5.0	40
16	Simulation Optimization for Medical Staff Configuration at Emergency Department in Hong Kong. IEEE Transactions on Automation Science and Engineering, 2017, 14, 1655-1665.	5.2	21
17	A New Budget Allocation Framework for the Expected Opportunity Cost. Operations Research, 2017, 65, 787-803.	1.9	52
18	Simulation budget allocation for simultaneously selecting the best and worst subsets. Automatica, 2017, 84, 117-127.	5.0	29

#	ARTICLE	IF	CITATIONS
19	Selecting good enough simulated designs. , 2017, , .		0
20	Efficient simulation budget allocation for stochastically constrained simulation optimization with regression in partitioned domains. , 2017, , .		0
21	A multi-objective perspective on robust ranking and selection. , 2017, , .		3
22	Optimal computing budget allocation with exponential underlying distribution. , 2016, , .		1
23	Optimal computing budget allocation with input uncertainty. , 2016, , .		7
24	A machine learning-based nested partitions framework for angle selection in radiotherapy. Optimization Methods and Software, 2016, 31, 1169-1188.	2.4	0
25	A new budget allocation framework for selecting top simulated designs. IIE Transactions, 2016, 48, 855-863.	2.1	25
26	Improving ordinal transformation through optimal combination of multi-model predictions. , 2016, , .		1
27	Feasibility determination in presence of multiple performance measure constraints. , 2016, , .		1
28	A note on the subset selection for simulation optimization. , 2015, , .		6
29	Selecting the Best Simulated Design With the Expected Opportunity Cost Bound. IEEE Transactions on Automatic Control, 2015, 60, 2785-2790.	5.7	21
30	Efficient subset selection for the expected opportunity cost. Automatica, 2015, 59, 19-26.	5.0	43
31	An optimal opportunity cost selection procedure for a fixed number of designs. , 2014, , .		2
32	An Optimal Sample Allocation Strategy for Partition-Based Random Search. IEEE Transactions on Automation Science and Engineering, 2014, 11, 177-186.	5.2	50
33	Evaluation of improvement probability for IMRT plans. , 2013, , .		0