Jan Kronqvist

List of Publications by Year
in descending order

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22 papers	469 citations	1039880 9 h-index	752573 20 g-index
22 all docs	22 docs citations	22 times ranked	355 citing authors

#	Article	IF	Citations
1	Simulation-based optimization of distillation processes using an extended cutting plane algorithm. Computers and Chemical Engineering, 2022, 159, 107655.	2.0	8
2	Maximizing information from chemical engineering data sets: Applications to machine learning. Chemical Engineering Science, 2022, 252, 117469.	1.9	27
3	The supporting hyperplane optimization toolkit for convex MINLP. Journal of Global Optimization, 2022, 84, 1-41.	1.1	6
4	Alternative regularizations for Outer-Approximation algorithms for convex MINLP. Journal of Global Optimization, 2022, 84, 807-842.	1.1	3
5	A disjunctive cut strengthening technique for convex MINLP. Optimization and Engineering, 2021, 22, 1315-1345.	1.3	7
6	Between Steps: Intermediate Relaxations Between Big-M and Convex Hull Formulations. Lecture Notes in Computer Science, 2021, , 299-314.	1.0	5
7	ENTMOOT: A framework for optimization over ensemble tree models. Computers and Chemical Engineering, 2021, 151, 107343.	2.0	24
8	Using regularization and second order information in outer approximation for convex MINLP. Mathematical Programming, 2020, 180, 285-310.	1.6	20
9	Global Optimization with Ensemble Machine Learning Models. Computer Aided Chemical Engineering, 2020, 48, 1981-1986.	0.3	3
10	Efficient Verification of ReLU-Based Neural Networks via Dependency Analysis. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 3291-3299.	3.6	54
11	On Solving Nonconvex MINLP Problems with SHOT. Advances in Intelligent Systems and Computing, 2020, , 448-457.	0.5	1
12	A center-cut algorithm for quickly obtaining feasible solutions and solving convex MINLP problems. Computers and Chemical Engineering, 2019, 122, 105-113.	2.0	12
13	Integration of polyhedral outer approximation algorithms with MIP solvers through callbacks and lazy constraints. AIP Conference Proceedings, 2019, , .	0.3	3
14	A review and comparison of solvers for convex MINLP. Optimization and Engineering, 2019, 20, 397-455.	1.3	175
15	Convex Minlp â€“ An Efficient Tool for Design and Optimization Tasks?. Computer Aided Chemical Engineering, 2019, 47, 245-250.	0.3	2
16	Reformulations for utilizing separability when solving convex MINLP problems. Journal of Global Optimization, 2018, 71, 571-592.	1.1	17
17	Structural learning in artificial neural networks using sparse optimization. Neurocomputing, 2018, 272, 660-667.	3.5	28
18	Method for solving generalized convex nonsmooth mixed-integer nonlinear programming problems. Journal of Global Optimization, 2017, 69, 443-459.	1.1	7

#	Article	IF	Citations
19	SHOT â€“ A global solver for convex MINLP in Wolfram Mathematica. Computer Aided Chemical Engineering, 2017, , 2137-2142.	0.3	5
20	A center-cut algorithm for solving convex mixed-integer nonlinear programming problems. Computer Aided Chemical Engineering, 2017, , 2131-2136.	0.3	6
21	The extended supporting hyperplane algorithm for convex mixed-integer nonlinear programming. Journal of Global Optimization, 2016, 64, 249-272.	1.1	51
22	Polyhedral approximation strategies for nonconvex mixed-integer nonlinear programming in SHOT. Journal of Global Optimization, 0, , 1.	1.1	5