

# Ruediger Schultz

## List of Publications by Year in descending order

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52  
papers

1,911  
citations

257450

24  
h-index

254184

43  
g-index

54  
all docs

54  
docs citations

54  
times ranked

950  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual decomposition in stochastic integer programming. <i>Operations Research Letters</i> , 1999, 24, 37-45.	0.7	403
2	Conditional Value-at-Risk in Stochastic Programs with Mixed-Integer Recourse. <i>Mathematical Programming</i> , 2006, 105, 365-386.	2.4	137
3	Stochastic programming with integer variables. <i>Mathematical Programming</i> , 2003, 97, 285-309.	2.4	136
4	Stability analysis for stochastic programs. <i>Annals of Operations Research</i> , 1991, 30, 241-266.	4.1	87
5	Validation of nominations in gas network optimization: models, methods, and solutions. <i>Optimization Methods and Software</i> , 2015, 30, 15-53.	2.4	84
6	Risk Aversion via Excess Probabilities in Stochastic Programs with Mixed-Integer Recourse. <i>SIAM Journal on Optimization</i> , 2003, 14, 115-138.	2.0	69
7	Shape Optimization Under Uncertainty – A Stochastic Programming Perspective. <i>SIAM Journal on Optimization</i> , 2009, 19, 1610-1632.	2.0	62
8	Unit commitment in power generation – a basic model and some extensions. <i>Annals of Operations Research</i> , 2000, 96, 167-189.	4.1	61
9	Stochastic Programs with First-Order Dominance Constraints Induced by Mixed-Integer Linear Recourse. <i>SIAM Journal on Optimization</i> , 2008, 19, 552-571.	2.0	61
10	A Stochastic Integer Programming Model for Incorporating Day-Ahead Trading of Electricity into Hydro-Thermal Unit Commitment. <i>Optimization and Engineering</i> , 2005, 6, 163-176.	2.4	59
11	Continuity Properties of Expectation Functions in Stochastic Integer Programming. <i>Mathematics of Operations Research</i> , 1993, 18, 578-589.	1.3	56
12	A note on second-order stochastic dominance constraints induced by mixed-integer linear recourse. <i>Mathematical Programming</i> , 2011, 126, 179-190.	2.4	55
13	Distribution sensitivity in stochastic programming. <i>Mathematical Programming</i> , 1991, 50, 197-226.	2.4	53
14	Solving stochastic programs with integer recourse by enumeration: A framework using Gröbner basis. <i>Mathematical Programming</i> , 1998, 83, 229-252.	2.4	53
15	Stochastic Integer Programming. <i>Handbooks in Operations Research and Management Science</i> , 2003, 10, 213-266.	0.6	50
16	Rates of Convergence in Stochastic Programs with Complete Integer Recourse. <i>SIAM Journal on Optimization</i> , 1996, 6, 1138-1152.	2.0	39
17	On the quantification of nomination feasibility in stationary gas networks with random load. <i>Mathematical Methods of Operations Research</i> , 2016, 84, 427-457.	1.0	38
18	Stability of Solutions for Stochastic Programs with Complete Recourse. <i>Mathematics of Operations Research</i> , 1993, 18, 590-609.	1.3	35

#	ARTICLE	IF	CITATIONS
19	Lipschitz Stability for Stochastic Programs with Complete Recourse. <i>SIAM Journal on Optimization</i> , 1996, 6, 531-547.	2.0	31
20	Some Aspects of Stability in Stochastic Programming. <i>Annals of Operations Research</i> , 2000, 100, 55-84.	4.1	31
21	Aggregated Scheduling of a Multiproduct Batch Plant by Two-Stage Stochastic Integer Programming. <i>Optimization and Engineering</i> , 2004, 5, 335-359.	2.4	31
22	Mathematical optimization for challenging network planning problems in unbundled liberalized gas markets. <i>Energy Systems</i> , 2014, 5, 449-473.	3.0	31
23	Risk Averse Shape Optimization. <i>SIAM Journal on Control and Optimization</i> , 2011, 49, 927-947.	2.1	27
24	Applying the Minimum Risk Criterion in Stochastic Recourse Programs. <i>Computational Optimization and Applications</i> , 2003, 24, 267-287.	1.6	26
25	Unit commitment in electricity pool markets. <i>Mathematical Programming</i> , 2006, 108, 313-337.	2.4	24
26	On deviation measures in stochastic integer programming. <i>Operations Research Letters</i> , 2005, 33, 441-449.	0.7	23
27	Risk aversion for an electricity retailer with second-order stochastic dominance constraints. <i>Computational Management Science</i> , 2009, 6, 233-250.	1.3	21
28	A Convex Approximation for Two-Stage Mixed-Integer Recourse Models with a Uniform Error Bound. <i>SIAM Journal on Optimization</i> , 2016, 26, 426-447.	2.0	15
29	Networks of pipelines for gas with nonconstant compressibility factor: stationary states. <i>Computational and Applied Mathematics</i> , 2018, 37, 1066-1097.	1.3	15
30	On the Glivenko-Cantelli Problem in Stochastic Programming: Linear Recourse and Extensions. <i>Mathematics of Operations Research</i> , 1998, 23, 204-220.	1.3	14
31	Strong convexity in stochastic programs with complete recourse. <i>Journal of Computational and Applied Mathematics</i> , 1994, 56, 3-22.	2.0	13
32	A simple recourse model for power dispatch under uncertain demand. <i>Annals of Operations Research</i> , 1995, 59, 135-164.	4.1	12
33	An algorithm for stochastic programs with first-order dominance constraints induced by linear recourse. <i>Discrete Applied Mathematics</i> , 2010, 158, 291-297.	0.9	11
34	Risk averse elastic shape optimization with parametrized fine scale geometry. <i>Mathematical Programming</i> , 2013, 141, 383-403.	2.4	10
35	Risk neutral and risk averse power optimization in electricity networks with dispersed generation. <i>Mathematical Methods of Operations Research</i> , 2009, 69, 353-367.	1.0	7
36	Stochastic Dominance Constraints in Elastic Shape Optimization. <i>SIAM Journal on Control and Optimization</i> , 2018, 56, 3021-3034.	2.1	7

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37	Two-Stage Stochastic Programs with Mixed Probabilities. SIAM Journal on Optimization, 2007, 18, 778-788.	2.0	5
38	On the Glivenko-Cantelli problem in stochastic programming: Mixed-integer linear recourse. Mathematical Methods of Operations Research, 1998, 47, 39-49.	1.0	4
39	A branch-and-bound method for multistage stochastic integer programs with risk objectives. Optimization, 2008, 57, 277-293.	1.7	4
40	Joint Model of Probabilistic-Robust (Proburst) Constraints Applied to Gas Network Optimization. Vietnam Journal of Mathematics, 2020, 49, 1097.	0.8	3
41	A hierarchical approach to real-time scheduling of a multiproduct batch plant with uncertainties. Computer Aided Chemical Engineering, 2000, 8, 1075-1080.	0.5	2
42	A pessimistic bilevel stochastic problem for elastic shape optimization. Mathematical Programming, 2023, 198, 1125-1151.	2.4	2
43	A new approach to stochastic linear programming. Numerical Functional Analysis and Optimization, 1993, 14, 545-554.	1.4	1
44	Quantitative solutions for future energy systems and markets. OR Spectrum, 2016, 38, 541-543.	3.4	1
45	The stochastic programming heritage of Maarten van der Vlerk. Computational Management Science, 2018, 15, 319-323.	1.3	1
46	Strong convexity in risk-averse stochastic programs with complete recourse. Computational Management Science, 2018, 15, 411-429.	1.3	1
47	Preface on CTW 2006. Mathematical Methods of Operations Research, 2009, 69, 203-204.	1.0	0
48	Editorial, Volume 12, Issue 4, 2015. Computational Management Science, 2015, 12, 489-490.	1.3	0
49	Computations in stochastic programming. Computational Management Science, 2015, 12, 219-220.	1.3	0
50	New Directions in Stochastic Optimisation. Oberwolfach Reports, 2018, 15, 2303-2384.	0.0	0
51	On Risk-Averse Stochastic Semidefinite Programs with Continuous Recourse. Vietnam Journal of Mathematics, 2019, 47, 865-879.	0.8	0
52	Recent advances in applied optimization under uncertainty. Computational Management Science, 2021, 18, 265-265.	1.3	0