

List of Publications, Rüdiger Schultz

- [1] Matthias Claus, Rüdiger Schultz and Kai Spürkel, *Strong convexity in risk-averse stochastic programs with complete recourse*, Computational Management Science, 15(3-4), pp. 411-429 (2018).
- [2] Martin Gugat and Rüdiger Schultz, *Boundary feedback stabilization of the isothermal Euler equations with uncertain boundary data*, SIAM Journal on Control and Optimization, 56(2), pp. 1491-1507 (2018).
- [3] Martin Gugat, Rüdiger Schultz and David Wintergerst, *Networks of pipelines for gas with nonconstant compressibility factor: stationary states*, Computational and Applied Mathematics, 37(2), pp. 1066-1097 (2018).
- [4] David P. Morton, Ward Romeijnders, Rüdiger Schultz and Leen Stougie, *The stochastic programming heritage of Maarten van der Vlerk*, Computational Management Science, 15(3-4), pp. 319-323 (2018).
- [5] Sergio Conti, Martin Rumpf, Rüdiger Schultz and Sascha Tölkes, *Stochastic Dominance Constraints in Elastic Shape Optimization*, SIAM Journal on Control and Optimization, 56(4), pp. 3021-3034 (2018).
- [6] Matthias Claus, Volker Krätschmer and Rüdiger Schultz, *Weak continuity of risk functionals with applications to stochastic programming*, SIAM Journal on Optimization, 27(1), pp. 91-109 (2017).
- [7] Rüdiger Schultz and Tobias Wollenberg, *Unit commitment under uncertainty in AC transmission systems via risk averse semidefinite stochastic Programs*, RAIRO-Operations Research, 51(2), pp. 391-416 (2017).
- [8] Claudia Gotzes, Holger Heitsch, René Henrion and Rüdiger Schultz, *On the quantification of nomination feasibility in stationary gas networks with random load*, Mathematical Methods of Operations Research, 84(2), pp. 427-457 (2016).

- [9] Ward Romeijnders, Rüdiger Schultz, Maarten H. van der Vlerk and Willem K. Klein Haneveld *A convex approximation for two-stage mixed-integer recourse models with a uniform error bound*, SIAM Journal on Optimization, 26(1), pp. 426-447 (2016).
- [10] Johann Hurink, Rüdiger Schultz and David Wozabal, *Quantitative solutions for future energy systems and markets*, OR Spectrum, 38(3), pp. 541-543 (2016).
- [11] Matthias Claus and Rüdiger Schultz, *Lipschitzian properties and stability of a class of first-order stochastic dominance constraints*, SIAM Journal on Optimization, 25(1), pp. 396-415 (2015).
- [12] Marc E. Pfetsch, Armin Fügenschuh, Björn Geißler, Nina Geißler, Ralf Gollmer, Benjamin Hiller, Jesco Humpola, Thorsten Koch, Thomas Lehmann, Alexander Martin, Antonio Morsi, Jessica Rövekamp, Lars Schewe, Martin Schmidt, Rüdiger Schultz, Robert Schwarz, Jonas Schweiger, Claudia Stangl, Marc C. Steinbach, Stefan Vigerske and Bernhard M. Willert, *Validation of nominations in gas network optimization: models, methods, and solutions*, Optimization Methods and Software, 30(1), pp. 15-53 (2015).
- [13] Rüdiger Schultz, *Computations in stochastic programming*, Computational Management Science, 12(2), pp. 219 - 220 (2015).
- [14] Ralf Gollmer, Rüdiger Schultz and Claudia Stangl, *The reduced NLP heuristic*, in: Th. Koch, B. Hiller, M.E. Pfetsch, L. Schewe (eds.) “Evaluating Gas Network Capacities”, SIAM, pp. 145-162 (2015).
- [15] Armin Fügenschuh, Björn Geißler, Ralf Gollmer, Christine Hayn, René Henrion, Benjamin Hiller, Jesco Humpola, Thorsten Koch, Thomas Lehmann, Alexander Martin, Radoslava Mirkov, Antonio Morsi, Jessica Rövekamp, Lars Schewe, Martin Schmidt, Rüdiger Schultz, Robert Schwarz, Jonas Schweiger, Claudia Stangl, Marc C. Steinbach and Bernhard M. Willert, *Mathematical optimization for challenging network planning problems in unbundled liberalized gas markets*, Energy Systems, 5(3), pp. 449-473 (2014).
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- [24] Alexander Martin, Björn Geißler, Christine Heyn, Benjamin Hiller, Jesco Humpola, Thorsten Koch, Thomas Lehmann, Antonio Morsi,

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- [26] Dimitri Drapkin, Ralf Gollmer, Uwe Gotzes, Frederike Neise and Rüdiger Schultz, *Risk management with stochastic dominance models in energy systems with dispersed generation*, in: M. Bertocchi, G. Consigli, M.A.H. Dempster (eds.) “Stochastic optimization methods in finance and energy - New financial products and energy market strategies”, Springer, pp. 253-271 (2011).
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Further Publications

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