

Publikationen

Patrick Mehlitz*

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Veröffentlichungen in Fachzeitschriften

- [1] C. Kanzow, P. Mehlitz, and D. Steck. Relaxation schemes for mathematical programmes with switching constraints. *Optimization Methods & Software*, 1–36, 2019. doi:[10.1080/10556788.2019.1663425](https://doi.org/10.1080/10556788.2019.1663425).
- [2] S. Dempe and P. Mehlitz. Semivectorial bilevel programming versus scalar bilevel programming. *Optimization*, 1–23, 2019. doi:[10.1080/02331934.2019.1625900](https://doi.org/10.1080/02331934.2019.1625900).
- [3] C. Clason, Y. Deng, P. Mehlitz, and U. Prüfert. Optimal control problems with control complementarity constraints: existence results, optimality conditions, and a penalty method. *Optimization Methods & Software*, 1–29, 2019. doi:[10.1080/10556788.2019.1604705](https://doi.org/10.1080/10556788.2019.1604705).
- [4] Y. Deng, P. Mehlitz, and U. Prüfert. On an optimal control problem with gradient constraints. *Optimization*, 1–33, 2019. doi:[10.1080/02331934.2019.1604707](https://doi.org/10.1080/02331934.2019.1604707).
- [5] Y. Deng, P. Mehlitz, and U. Prüfert. Optimal control in first-order Sobolev spaces with inequality constraints. *Computational Optimization & Applications*, 72(3):797–826, 2019. doi:[10.1007/s10589-018-0053-8](https://doi.org/10.1007/s10589-018-0053-8).
- [6] S. Dempe, F. Harder, P. Mehlitz, and G. Wachsmuth. Solving inverse optimal control problems via value functions to global optimality. *Journal of Global Optimization*, 74(2):297–325, 2019. doi:[10.1007/s10898-019-00758-1](https://doi.org/10.1007/s10898-019-00758-1).
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- [8] F. Benita and P. Mehlitz. Solving optimal control problems with terminal complementarity constraints via Scholtes’ relaxation scheme. *Computational Optimization and Applications*, 72(2):413–430, 2019. doi:[10.1007/s10589-018-0050-y](https://doi.org/10.1007/s10589-018-0050-y).

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- [9] P. Mehlitz. On the Sequential Normal Compactness Condition and its Restrictiveness in Selected Function Spaces. *Set-Valued and Variational Analysis*, 27(3):763–782, 2019. doi:[10.1007/s11228-018-0475-6](https://doi.org/10.1007/s11228-018-0475-6).
- [10] P. Mehlitz and G. Wachsmuth. The Weak Sequential Closure of Decomposable Sets in Lebesgue Spaces and its Application to Variational Geometry. *Set-Valued and Variational Analysis*, 27(1):265–294, 2019. doi:[10.1007/s11228-017-0464-1](https://doi.org/10.1007/s11228-017-0464-1).
- [11] F. Benita and P. Mehlitz. Optimal Control Problems with Terminal Complementarity Constraints. *SIAM Journal on Optimization*, 28(4):3079–3104, 2018. doi:[10.1137/16M107637X](https://doi.org/10.1137/16M107637X).
- [12] S. Dempe, F. Mefo Kue, and P. Mehlitz. Optimality Conditions for Special Semidefinite Bilevel Optimization Problems. *SIAM Journal on Optimization*, 28(2):1564–1587, 2018. doi:[10.1137/16M1099303](https://doi.org/10.1137/16M1099303).
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Buchbeiträge

- [1] S. Dempe, F. Harder, P. Mehlitz, und G. Wachsmuth. Analysis and Solution Methods for Bilevel Optimal Control Problems. In *Non-smooth and Complementarity-based Distributed Parameter Systems: Simulation and Hierarchical Optimization*. Birkhäuser, 2019. eingereicht.
- [2] P. Mehlitz und G. Wachsmuth. Bilevel optimal control: existence results and stationarity conditions. In S. Dempe und A. Zemkoho, editors, *Bilevel Optimization: Advances and next Challenges*. Springer, 2019. zur Publikation angenommen. URL: <https://arxiv.org/abs/1906.08026>

Veröffentlichungen in Tagungsbänden

- [1] C. Clason, Y. Deng, P. Mehlitz, und U. Prüfert. A penalization scheme for the numerical solution of optimal control problems with control complementarity constraints. *PAMM*, Seiten 1–2, 2019. zur Veröffentlichung angenommen.

Preprints

- [1] P. Mehlitz. A comparison of first-order methods for the numerical solution of or-constrained optimization problems. *Preprint arXiv*, Seiten 1–41, 2019. eingereicht bei Computational Optimization & Applications. URL: <https://arxiv.org/abs/1905.01893>.
- [2] P. Mehlitz. On the linear independence constraint qualification in disjunctive programming. *Preprint arXiv*, Seiten 1–37, 2019. eingereicht bei Optimization. URL: <https://arxiv.org/abs/1902.01614>.

Dissertationsschrift

- [1] P. Mehlitz. *Contributions to complementarity and bilevel programming in Banach spaces*. PhD thesis, Technische Universität Bergakademie Freiberg, 2017. URL: <http://www.qucosa.de/fileadmin/data/qucosa/documents/22709/thesisMehlitz2017PDFA.pdf>.