

Some selected publications

Below references and links to some selected papers
Professor Karl Tapio Westerlund

1. Westerlund T., Eronen V.-P. and Mäkelä M. M. (2022). Using projected cutting planes in the extended cutting plane method. *Optimization*, **71**, 4147-4176.
<https://doi.org/10.1080/02331934.2021.1939337>
2. Lundell A., Kronqvist J. and Westerlund T. (2022). The supporting hyperplane optimization toolkit for convex MINLP. *Journal of Global Optimization*, **84**, 1–41.
<https://doi.org/10.1007/s10898-022-01128-0>
3. Westerlund T., Eronen V.-P. and Mäkelä M. M. (2018). On solving generalized convex MINLP problems using supporting hyperplane techniques. *Journal of Global Optimization*, **71**, 987-1011.
<https://doi.org/10.1007/s10898-018-0644-z>
4. Lundell A. and Westerlund T. (2018). Solving global optimization problems using reformulations and signomial transformations. *Computers and Chemical Engineering*, **116**, 122–138.
<https://doi.org/10.1016/j.compchemeng.2017.10.035>
5. Skjäl A. and Westerlund T. (2014). New methods for calculating α BB-type underestimators. *Journal of Global Optimization*, **58**, 411-427.
<https://doi.org/10.1007/s10898-013-0057-y>
6. Eronen V.-P., Mäkelä M. M. and Westerlund T. (2014). On the generalization of ECP and OA methods to nonsmooth convex MINLP problems. *Optimization*, **63**, 1057–1073.
<https://doi.org/10.1080/02331934.2012.712118>
7. Lundell A., Skjäl A. and Westerlund T. (2013). A reformulation framework for global optimization. *Journal of Global Optimization*, **57**, 115–141.
<https://doi.org/10.1007/s10898-012-9877-4>
8. Skjäl A., Westerlund T., Misener R. and Floudas C. A. (2012). A generalization of the classical α BB convex underestimation via diagonal and non-diagonal quadratic terms. *Journal of Optimization Theory and Applications*, **154**, 462–490.
<https://doi.org/10.1007/s10957-012-0033-6>
9. Emet S. and Westerlund T. (2008). Solving a dynamic separation problem Using MINLP techniques. *Applied Numerical Mathematics*, **58**, 395–406.
<https://doi.org/10.1016/j.apnum.2007.01.023>
10. Still C. and Westerlund T. (2006). Solving convex MINLP optimization problems using a sequential cutting plane algorithm. *Computational Optimization and Applications*, **34**, 63–83.
<https://doi.org/10.1007/s10589-005-3076-x>
11. Westerlund T. and Pörn R. (2002). Solving Pseudo-Convex Mixed Integer Optimization Problems by Cutting Plane Techniques. *Optimization and Engineering*, **3**, 253-280.
<https://doi.org/10.1023/A:1021091110342>
12. Westerlund T. and Pettersson F. (1995). An extended cutting plane method for solving convex MINLP problems. *Computers and Chemical Engineering*, **19**, 131–136.
[https://doi.org/10.1016/0098-1354\(95\)87027-X](https://doi.org/10.1016/0098-1354(95)87027-X)

These and some additional papers can be found from: <tp://users.abo.fi/twesterl/some-selected-papers/>