

Vortrag zur Optimierung



EINLADUNG ZUM VORTRAG

Es spricht

Herr Moritz Link

(Universität Konstanz)

zum Thema:

An approach for multiobjective mixed-integer non-convex optimization and its application to energy supply networks

Abstract:

In many real-world applications one seeks to optimize more than one objective function. If these objectives are conflicting, some variables are required to take only integer values and no convexity assumptions are made, one obtains so-called multiobjective mixed-integer nonconvex optimization problems. In this talk, we present a novel approach for computing an enclosure of the nondominated set of such problems. Our criterion space method avoids solving any MINLPs by using relaxations of the original problem which are adaptively refined during the procedure. The application to instances of decentralized energy supply networks demonstrates the effectiveness of this approach when dealing with larger optimization problems.

**Dienstag, 15. November 2022, 11:00 Uhr,
Raum C 325 im Curiebau**

Alle Interessierten sind herzlich eingeladen.

Ilmenau, 30.09.2022

Prof. Dr. Gabriele Eichfelder