Speaker
Marc Steinbach

Title
"MPCC models and primal heuristics for MINLP in gas networks"

Abstract
The lecture addresses MINLP models arising in stationary operation of gas networks. For finding feasible solutions we propose a primal heuristic based on MPCC reformulations of a simplified MINLP in combination with a convexification approach for selecting compressor station configurations. Computational results for a real-life gas network demonstrate that an NLP approach for the MPCC models is successful in finding MINLP-feasible solutions for a large fraction of test cases.

(Joint work with Martin Schmidt)