Kolloquium Angewandte Mathematik
Prof. Thomas Apel (BAU1)
Prof. Matthias Gerdts (LRT1)
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der Bundeswehr
Universität München

Vortragsankündigung

Am **Dienstag, den 17.05.2022,** hält **um 17:00 Uhr**

Arnd Rösch
(Universität Duisburg–Essen)

einen Vortrag über das Thema

Sufficient optimality conditions in optimization and optimal control

Der Vortrag findet im **Raum 1401** in **Gebäude 33** statt.

Vortragszusammenfassung

Sufficient optimality conditions are very important for several reasons: First, they are the main ingredient for stability of perturbed problems. Under certain assumptions one can show Lipschitz stability of perturbed solutions. Second, such conditions are essentially needed to show fast convergence of SQP-methods. Third, sufficient optimality conditions are a main tool to derive optimal a priori error estimates for FE-discretizations for nonconvex optimal control problems.

We will start with an overview on second-order optimality conditions for finite dimensional optimization problems. This will be the starting point to derive no-gap sufficient optimality conditions for optimal control problems.

Alle Interessierten sind dazu herzlich eingeladen.