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I will discuss (a few) issues in PDE constrained optimization that arise from the presence of the PDE (in contrast to 'just' large-scale finite dimensional constraints). I will focus on CLAPDE and interfaces, but not on optimization algorithms. My research focusses on derivative based, Newton-type algorithms for PDE constrained optimization problems.

PDE Constrained Optimization - Department of Mathematical ...

Solving optimization problems subject to constraints given in terms of partial differential equations (PDEs) with additional constraints on the controls and/or states is one of the most challenging problems in the context of industrial, medical and economical applications, where the transition from model-based numerical simulations to model-based design and optimal control is crucial.

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In mathematical optimization, constrained optimization (in some contexts called constraint optimization) is the process of optimizing an objective function with respect to some variables in the presence of constraints on those variables. The objective function is either a cost function or energy

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function, which is to be minimized, or a reward function or utility function, which is to be maximized. Constraints can be either hard constraints, which set conditions for the variables that are require

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problems that arise in the field of PDE constrained optimization. New analytic and algorithmic paradigms have been developed, implemented and validated in the context of real-world applications.

Trends in PDE Constrained Optimization on Apple Books

when applied to optimization problems with pde constraints new aspects become important for instance discretized pde constrained problems are inherently large scale some aspects like mesh independent convergence behavior can only be explained by incorporating the infinite dimensional point of view which is not present in finite dimensional problems moreover discretization and

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