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Vortragsankündigung

Im Rahmen unseres gemeinsamen Oberseminars spricht

Herr Prof. Jose Herskovits Norman
OptimizE - Engineering Optimization Lab
Mechanical Engineering Program
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Federal University of Rio de Janeiro

am **Montag, dem 13. Juli 2009**, 16:15 Uhr, über das Thema

“Large Scale PDE Optimization with FAIPA, the Feasible Arc Interior Point Algorithm”

Abstract

At each iteration, FAIPA defines a "feasible descent arc" and finds a new interior point with a lower objective on this arc. To compute the arc, three linear systems with the same matrix must be solved. This matrix includes the quasi-Newton and the constraints derivatives matrices. We present a formulation for PDE constraints that solves the linear systems iteratively, avoiding the storage of these matrices. Numerical results in Structural Optimization show that the present approach is strong and efficient for very large scale applications, requiring very small data storage.

Der Vortrag findet im S 82, Gebäude NW II, statt.

gez. Hans Josef Pesch