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# MATHEMATIKKOLLOQUIUM

Das Institut für Mathematik lädt zu folgendem Vortrag ein:

**Zuhair Nashed**

Department of Mathematics, University of Central Florida, USA

## **Slant Differentiability and Semismooth Methods for Operator Equations**

In this talk I will discuss operator-theoretic aspects of slant differentiability and related variants. Application to Newton-like methods, optimal control theory, and nonlinear ill-posed problems will be indicated. A unifying framework for semismooth analysis will be sketched and compared with the setting in (2) for smooth analysis.

(2) M. Z. Nashed, Differentiability and related properties of nonlinear operators: Some aspects of the role of differentials in nonlinear functional analysis, in L.B. Rall, ed., "Nonlinear Functional Analysis and Applications", Academic Press, New York, 1971, pp. 103-309.

**Zeit: Montag, den 30. Juni 2008 um 17:15 Uhr**

**Ort: Viktor-Franz-Hess-Haus, Technikerstraße 25, HS D**

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Weiterführende Vorträge:

Zeit: Samstag, den 28. Juni 2008 und Dienstag, 01. Juli 2008; jeweils 10:00 Uhr

Ort: ICT-Gebäude, Technikerstraße 21a, Raum 3W04

*Otmar Scherzer*

**Gäste sind herzlich willkommen!**