

## SEMINARVORTRAG

Die Arbeitsgruppe Numerical Analysis lädt zu folgendem Vortrag ein:

**Heiko Gimperlein**

Grundlagen der Technischen Wissenschaften, AB Technische Mathematik

### **Finite and boundary element methods in the time domain: Efficient methods and applications**

This talk gives an overview of my recent work on accurate and efficient numerical methods for the acoustic wave equation and related time dependent problems. Some difficult challenges in this context include wave propagation over large distances, nonlinear boundary conditions like dynamic contact of elastic bodies, complex domains and the coupling of different physics. We outline how the analysis of the underlying partial differential equation allows to design numerical discretizations in space and time and analyze their convergence.

Zeit: **Dienstag, 17. Mai 2022 um 14.15 Uhr**

Ort: **Victor-Franz-Hess-Haus, Technikerstr. 25, HS C**

**Gäste sind herzlich willkommen!**

*Alexander Ostermann*