

Mathematisches Institut
der Universität Bayreuth

Prof. Dr. V. Aizinger Prof. Dr. M. Bebendorf
Prof. Dr. K. Chudej Prof. Dr. L. Grüne
Prof. Dr. A. Schiela

95440 BAYREUTH
TEL: (0921) 55-3270
TELEFAX: (0921) 55-5361

BAYREUTH, DEN 16. JANUAR 2020

VORTRAGSANKÜNDIGUNG

Im Rahmen unseres gemeinsamen Oberseminars

„Numerische Mathematik, Optimierung und Dynamische Systeme“

spricht

Herr Dr. Jukka-Pekka Humaloja,
Tampere University of Technology, Finland
zur Zeit Universität Bayreuth

am **Montag, 27. Januar 2020**, 16 Uhr c. t. über das Thema

"Controller Design for Boundary Control Systems"

Abstract:

Boundary control systems (BCS) are PDEs where control and observation occur via the boundaries of the spatial domain. This talk considers various control problems for this class of systems and presents control strategies to solve them: the robust output regulation problem (RORP) is solved using an error-feedback controller based on the internal model principle, model predictive control (MPC) is considered in the discrete time setting utilizing Cayley-Tustin time discretization, and an unknown input observer is constructed based on the active disturbance rejection control (ADRC) strategy.

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

gez. Lars Grüne