FINITE ELEMENTS FOR NONLINEAR AND MULTISCALE PROBLEMS

Feb 28 – Mar 03, 2020 : Department of Mathematics, IISc Bangalore

Topics

Introduction to finite elements and theory,

Numerics for nonlinear bending theories for rods and plates,

Discretisation of fully nonlinear PDE, including finite element and semi-Lagrangian methods, links to Optimal Control,

Numerical Homogenization and Beyond,

PDE Constrained Optimization: analysis, algorithms, and applications

Speakers

Soeren Bartels, Albert Ludwigs University of Freiburg

Max Jensen, University of Sussex

Daniel Peterseim, Augsburg University

Harbir Antil, George Mason University

Thirupathi Gudi, Indian Institute of Science Bangalore

PhD Scholars, PostDocs and Researchers working in finite elements can apply to participate in this workshop by email to mathgudi@gmail.com with their biodata by Nov 30, 2019. Recommendation letter from advisor should be sent directly to this email-id. Boarding and Lodging will be provided to all the selected participants during the programme. Participants will cover their own travel expenses.

Organizer: Thirupathi Gudi