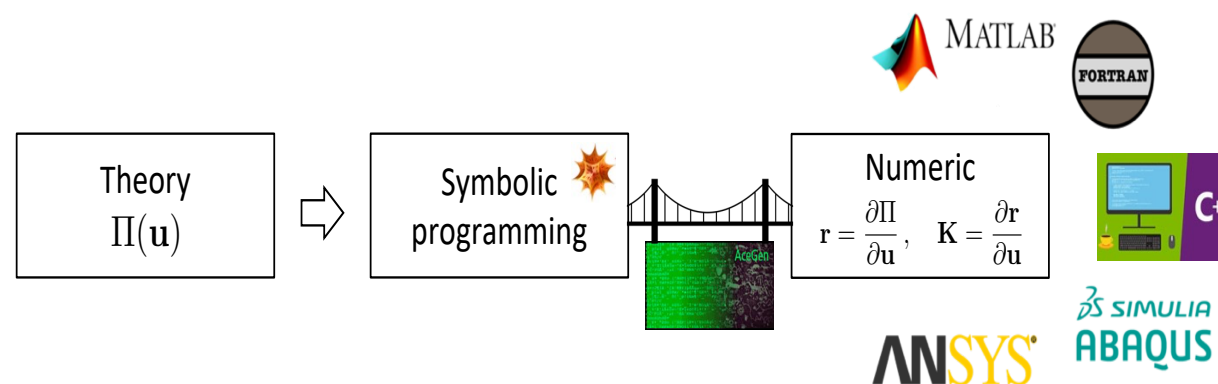




COURSE

Introduction to Automated Computational Modelling

The seminar will introduce basic notions of Automated Computational Modelling. Applications for the solution of nonlinear problems and the analysis of nonlinear constitutive laws will be shown. The lecture will conclude with a brief overview of the potentialities in the context of Finite Elements



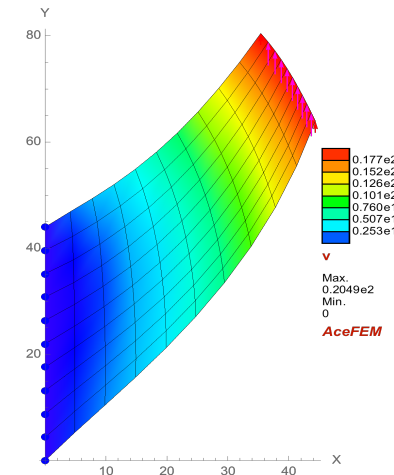
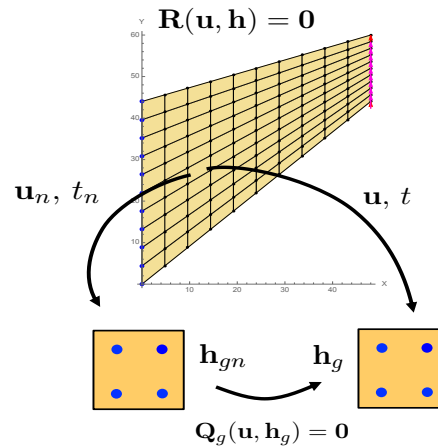
Michele Marino, PhD, MSc,
Group Leader "Predictive Simulations in Biomechanics"
Institute of Continuum Mechanics
Leibniz Universität Hannover, Germany

May 8th, 9-11
Aula 8, Polo Nuovo
Via Ferrata, 3 – Pavia



Automated Computational Modelling for the Finite Element Method

This seminar will introduce to applications of Automated Computational Modelling for Finite Element problems. Starting from standard linear elastic problems, lectures will guide through the generalization to mixed formulations in linear elasticity and to nonlinear problems in finite strain kinematics. The lecture will conclude with a brief overview on approaches for material nonlinearities, such as elasto-plasticity



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May 8th, 11-13
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Aula MS1, DICAr
Via Ferrata, 3 – Pavia