Welcome to my homepage

I am assistant professor at the Chair for Computational Engineering (L-10)
I am working in the field of Computational Engineering, mostly from the point of view of developing simulation systems based on Finite Element Method. Here you will find an outline of my research and teaching activities. For detailed information on the particular subject you can use the menu on the right. Welcome.

Contact

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My timetable
Tutoring hours for summer term 2018/2019 :

- **Wednesday 10:00–11:30**,
- **Friday 10.00–11:30**

Research

My research concentrates on selected topics related to design and implementation of scientific simulation systems for computational mechanics. In particular I am interested in:

- FEM based problem solving environment for coupled problems in application to material modling (mainly concrete)
- Finite Element mesh generation
- scientific data visualisation
- isogeometric method
- discrete exterior calculus
- problem solving environments for finite element method

There is a separate page where with more info on my research.

I am also interested in several topics related to programming as: multi-language programming (SWIG), programming in Python, Octave, Erlang, Ch, graphical user interfaces (Qt).

Science Code Manifesto

I fully endorse

Projects

The complete list of my projects is here. Currently I am actively working on the following ones:

- ExTeNSo - Modeling of Materials' Microstructures
- FEMDK - Finite Element Method Development Kit
- Modular pre-processing and post-processing environment for FEM based on Qt, Hoop3D, CGM, MOAB, OpenCASCADE and Python
- Mesh generation and manipulation tools in Python
- General polygonal mesh generator

Teaching

In summer term 2018/2019 I am teaching:

- Computational methods – 2nd year, undergraduate course, lab (in English) Course webpage

The other subjects I usually teach are:

- Computational methods – 2nd year, undergraduate course, lab (in Polish)
- Information technology – 1-st year, undergraduate course, lab
- Information technology – 1-st year, undergraduate course (in English), lectures and labs
- Engineering graphics (CAD) – 2-nd year, undergraduate course, lab
- Diploma seminar – 5-th year, undergraduate course
- Selected topics in scientific visualisation – 1-st year postgraduate course, lab
- Selected topics in Computer Science – 1-st year, graduate course (in English)
- Mathematics II – 1st year, graduate course, lab

- Applied mathematics and numerical methods – undergraduate course

Detailed information on each subject and other teaching related information can be found on this page.

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