

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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For seeing me in person: Room 402, [4-th floor](#), building of Faculty of Electrical and Computer Engineering

[My timetable](#)

Tutoring hours for summer term 2019/2020 :

- **Wednesday 10:00-11:30** [Hangout group](#) ,
- **Friday 10.00-11:30** [Hangout group](#)

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 modeling (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).

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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 winter term 2020/2021 I am teaching:

- Object Oriented Programming – 3rd year, graduate course, lectures and labs (in Polish), [course page](#)
- Technologia informacyjna – 1st year, undergraduate, labs, [course page](#)

The other subjects I usually teach are:

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