36. **Štefan Berežný**

Implementation of Research Findings in the Laboratories of DMTI

We have adapted our two laboratories on our department based on our research results, which were presented at the conference CADGME 2014 in Halle and published in the journal [1].

We describe the hardware and software structure of the Laboratory 1: LabIT4KT-1 – Laboratory of Computer Modeling, and the laboratory 2: LabIT4KT-2 – Laboratory of Numerical Mathematics. We describe the functionality of these laboratories in teaching mathematics courses at our faculty. The main idea is to give priority for usage freely available software.

We focus mainly on the following mathematical subjects: Operational Analysis, Linear and Quadratic Programming, Numerical Mathematics, Applied Statistics, Queuing Theory, Software Computing Resources, Software tools for modeling processes, Applications of Differential Equations, Optimization Methods, and Fundamentals of the LATEX.