## Foreword about Radek Kucera, head of the Department of Mathematics and Descriptive Geometry, VSB-Technical University of Ostrava:

Radek Kucera was born in Opava, 1968. In 1991 he graduated at the Faculty of Science Palacky University in Olomouc in branch Numerical Mathematics and scientific degree Ph.D. he obtained in the year 1994 at the same university. In 2001 he became the associate professor at the Department of Mathematics and Descriptive Geometry, VSB-Technical University of Ostrava. He is currently head of the department. He works also as the senior researcher in the European Center of Excellence IT4Innovations in Ostrava. His specialties are nonlinear models and their numerical analysis including effective preconditioned solvers, numerical linear algebra and optimization. He has authored/co-authored several refereed journal/conference papers among them 20 papers were published in journals with impact factor. His h-index reported by Scopus is 9.
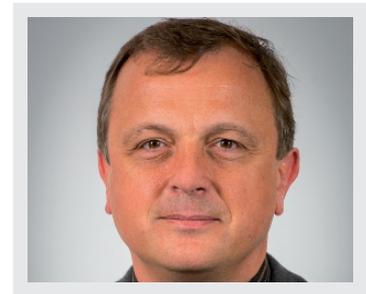
Radek Kucera

The mathematical modelling including numerical methods of linear algebra and optimization is an attractive scientific field from the point of view of engineering applications. Many important industry problems, problems in biology, chemistry, medicine, economy or ecology can be effectively modelled and solved numerically. Another impulse for research in this area is the emergence of new computer architectures and growth of capabilities of computers itself. These two aspects – practical problems and new computational tools – guaranty necessity to develop new mathematical models and numerical methods in the future.

Readers may find several scientific papers based on presentations given in the seminar Modern Mathematical Methods in Engineering 2013 (3μ) inside of this Advances in Electrical and Electronic Engineering issue. This seminar may be characterized as a scientific meeting devoted mainly to mathematical modeling of engineering problems. An attention is also devoted to the field of pedagogical methodology in mathematical education at technical and economics universities. Traditionally, the seminar is organized by the Union of Czech Mathematicians and Physicists (their Ostrava branch) and by the Department of Mathematics and Descriptive Geometry, VSB-Technical University of Ostrava. During its history that goes back to 1992, the seminar has contributed significantly to the growth of the research community in Ostrava. Co-financing of the 22nd and the 23rd seminar by the Microproject Fund of the Euroregion Silesia (CZ.3.22/3.3.04/13.03561) allowed a large turnout of participants, including Ph.D students and, in particular, there was significantly higher attendance of colleagues from the Polish border universities. Cooperation between 3μ and Advances in Electrical and Electronic Engineering is a good basis for further increase of the scientific quality of the research. Many thanks to the editor team of Advances in Electrical and Electronic Engineering for their support. Finally, we can invite all interested people to the 24th seminar 3μ that will be in the next year.