Curriculum vitae

Jiří Hozman

Personal information

Jiří Hozman, born in 1981, ORCID 0000-0003-3871-5610

Education

2005 PhD theme: Discontinuous Galerkin method for convection-diffusion problems.
branch: Scientific and Technical Computations.
Faculty of Mathematics and Physics, Charles University, Prague, Czech Republic.

2005 Master theme: Numerical solution of convection–diffusion equations using the discontinuous Galerkin method on general meshes.
branch: Numerical Mathematics.
Faculty of Mathematics and Physics, Charles University, Prague, Czech Republic.

Current and previous positions

Since 2010 Assistant professor - Department of Mathematics, Faculty of Science, Humanities and Education, Technical University of Liberec.

Activities - teaching of the basic courses of mathematical analysis and numerical mathematics as well as advanced topics such as finite element methods and mathematical methods in fluid dynamics.

Fellowships

05/2014 Technical University of Košice, Faculty of Aeronautics,
LLP Erasmus Teaching Program

05/2016 Pavol Jozef Šafárik University in Košice, Faculty of Science,
LLP Erasmus Teaching Program

Awards and prizes

2009 3 rd place in the Prof. Babuška Prize competition (Ph.D. dissertation),
Czech Society of Mechanics, z.s., Czech Republic.

Research interests and activities

2016-2018 Principal investigator of standard project of Czech Science Foundation, *Robust numerical schemes for pricing of selected options under various market conditions* (GA-16-09541S).

2020-2021 Principal investigator of internal project of Technical University of Liberec, *Novel numerical approaches to valuation of complex option contracts* (PURE-2020-4003).

2022-2024 Principal investigator of standard project of Czech Science Foundation, *Flexible tools for strategic investments and decision-making: analysis, valuation and implementation* (GA-22-17028S).

Jiří Hozman deals with the analysis and applications of the discontinuous Galerkin method and the development of numerical schemes based on this method for many of the problems described by nonstationary linear as well as nonlinear partial differential equations, especially

- scalar convection-diffusion problems,
- wave propagation in heterogeneous media,
- modelling of the temperature field during laser welding,
- numerical pricing of selected options under various market conditions,
- valuation of real options and their use in investment decision-making.

Publications (and citations)

- 15 articles in IF journals (indexed in Web of Science),
- 2 articles in peer-reviewed journals (indexed in Scopus),
- 36 conference proceedings (in ISI Proceedings),
- 1 monograph,
- H-index: 7 / 8 (Web of Science / Scopus).