Babeș-Bolyai University Cluj-Napoca
2017-2018

Doctoral School in Mathematics and Computer Science

Doctoral supervisors

Mathematics Field of study

Agratini Octavian
Operator Theory, Linear Approximation Processes, Quantum Calculus
Andrica Dorin
Geometry, Critical Point Theory, Lie Groups, Geometric Mechanics
Baricz Árpád
Orthogonal polynomials and special functions
Breaz Simion-Sorin
Modules, Abelian Groups, Rings, Homological Algebra
Breckner Brigitte-Erika
Topological Semigroups, Functional Analysis, Critical Point Theory, Analysis on Fractals
Buică Florina-Adriana
Qualitative Theory of ODEs, Bifurcation Theory, Dynamical Systems
Bulboacă Teodor
Complex Analysis, Geometric Function Theory
Cătinaș Teodora-Maria
Approximation Theory, Numerical Methods
Crivei Septimiu
Module theory, Category theory
Duca Dorel
Mathematical Analysis, Optimization Theory
Groșan Teodor-Silviu
Theoretical Mechanics, Fluid Mechanics, Porous Media, Heat Transfer
Kassay Gábor
Nonlinear Analysis, Variational Analysis, Optimization
Kohr Gabriela
Complex Analysis, Geometric Function Theory of One and Several Complex Variables
Kohr Mirela
Fluid Mechanics, Potential Theory, Complex Analysis, Partial Differential Equations
Kristály Alexandru
Calculus of Variations, Critical Point Theory, Elliptic Problems, Riemann-Finsler Geometry, Geometric Analysis, Optimization on Manifolds
Lisei Hannelore
Stochastic Analysis, Variational Calculus
Mărcuș Andrei-Dorin
Representation Theory of Groups and Algebras
Mureșan Marian
Nonsmooth Analysis, Optimal Control, Image Processing
Petrușel Adrian
Nonlinear Analysis, Differential Equations, Fixed Point Theory
Popovici Nicolae
Vector Optimization, Operations Research, Convex Analysis, Generalized Convexity, Set-valued Analysis
Precup Radu

Nonlinear Functional Analysis, Ordinary and Partial Differential Equations
Sălăgean Grigore
Complex Analysis, Geometric Function Theory
Varga Győrgy-Csaba
Critical Point Theory, Hemivariational Inequalities, Riemann-Finsler Geometry

Computer Science Field of study

Andreica Anca-Mirela
Applied Computational Intelligence
Boian Florian - Mircea
Operating Systems; Concurrent and Distributed Systems; Web Services
Czibula Gabriela
Computational Intelligence, Machine Learning, Distributed Artificial Intelligence
Czibula István-Gergely
Search Based Software Engineering
Dioșan Laura-Silvia
Nature-inspired Computation, Machine Learning, Applied Computational Intelligence
Pârv Bazil
Software Engineering, Modeling and Simulation, Scientific Computation
Pop Horia F.
Computational Intelligence, Intelligent Data Analysis

Affiliated academic staff

Mathematics

Breaz Valer-Daniel
Complex Analysis, Geometric Function Theory
Gal Gheorghe-Sorin
Global Smoothness and Shape Preserving Interpolation, Nonlinear Approximation, Complex and Quaternionic Approximation, Fuzzy Mathematics
Gonska Heiner
Approximation Theory, Computer-Aided Design, Theory of Algorithms

Description

The Faculty of Mathematics and Computer Science from Babeș-Bolyai University offers 3rd cycle academic studies in the form of PhD programmes in Mathematics and Computer Science, organized by the Doctoral School of Mathematics and Computer Science. The degrees offered are PhD in Mathematics and PhD in Computer Science, respectively. Target groups are graduates of master programmes in Mathematics, Computer Science, Computer Engineering, Economics, and Natural Sciences. The main purpose of the programmes is to develop advanced research skills and to produce valuable and internationally visible scientific results in the fields of Mathematics and Computer Science. Our programmes are promoting high-quality fundamental and applied research in Mathematics and Computer Science, as well as interdisciplinary research, by involving the PhD students in the most important and recent research projects of the faculty, including international cooperation with academic and industrial partners.

The major research topics in Mathematics are: Algebra, Analysis, Geometry, Complex Analysis, Approximation, numerical and statistical calculus, Nonlinear operators and differential equations and Mechanics. In Computer Science, the research topics include: Applied computational intelligence, Machine Learning and applications, Search Based Software Engineering, Modeling and Simulation and Intelligent Data Analysis.

The mission of the Doctoral school in Mathematics and Computer Science is to allow PhD students to pursue a high-quality research in Mathematics and Computer Science, as well as to continuously increase the scientific quality of mentoring doctoral students and the quality of their PhD theses. The Doctoral School supports joint

doctoral degrees. The holder of a PhD diploma in Mathematics and Computer Science may activate in any academic or research institution, as well as in industrial or administrative fields.

Contact

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Secretary of the doctoral school: Ana Meseșan
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