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4. Department of Mathematics and Computer Science, Hungarian line
   • Profile
   • Academic Staff
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   • Projects
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The Superior Dacia University, King Ferdinand I University, University of Cluj Napoca is the most important university of Transylvania, from November 3, 1919 when was set up by King Ferdinand I. The Babeș-Bolyai University offers study programmes in Romanian, Hungarian, German, English, and French. The university was named after prominent scientists from Transylvania: the Romanian bacteriologist Victor Babeș and the Hungarian mathematician János Bolyai.

In 1959, the Communist authorities decided to merge the two universities into one, named Babeș-Bolyai University, with teaching in both language. The university is now the most diversified and the most complex higher education institution in Romania, Babeș-Bolyai University has more than 40,000 students. The structure of the student body is composed out of over 2,500 Ph.D. students, 8500 master’s degree students, and 30,000 undergraduates. The university has 21 faculties and over 1,400 faculty members. It offers bachelor’s, master’s, and Ph.D. degrees, along with advanced postgraduate studies.

In the 2011 URAP international ranking, the University was ranked first in Romania based on top academic indicators.

In the 2012 QS World University Rankings, it was included in Top 700 universities of the world.
The Faculty of Mathematics and Computer Science is today a fortunate blend of tradition, experience and modernity in a large and prestigious University.

The Computer Science is undeniably the science of the present and, beyond all questions, of the future as well. The number of students attending the courses in this branch has rapidly increased and it is with absolute certainty that the graduates of Computer Science study programs can compete fearlessly and deeply confidently on the international labour market of Information Technology.

There are generations of graduates of Mathematics and Computer Science study programs, spread all over the country and in the whole world, who work for prestigious schools, for strong IT companies, or in different fundamental and applied research fields in universities or research institutes from Romania, Western Europe or United States.
The Faculty of Mathematics and Computer Science is, in our opinion, a fortunate blend of tradition, experience and modernity in a large and prestigious University. On one hand, it is known that all that was discovered in Mathematics along the centuries, even since the times of the ancient Egyptians, Arabians and Greeks, all that Euclid, Pythagora, Euler or Poincaré stated as mathematical truth, remained as such. None of these became obsolete; the subsequent discoveries did not revoke anything from Mathematics which kept on developing unceasingly. The Faculty of Mathematics and Computer Science from Babeş-Bolyai University Cluj-Napoca relies on and draws its vigour from a whole school of famous names that starts with M. Hell, F. Riesz, L. Fejer, Gy. Farkas, D. Pompeiu, P. Sergescu, Gh. Bratu, Th. Anghelută and proceeds with G. Călugăreanu, T. Popoviciu and D.V. Ionescu, F. Rado, to mention only a few important scientists and professors. Today, with more than 500 students, enrolled in Bachelor study programs (in Mathematics and Mathematics-Computer Science) and in Master programs (Applied Mathematics and Didactic Mathematics) and with a very strong research activity (mainly in Algebra and in Applied Analysis), the Department of Mathematics try to maintain at a high level a successful scientific and professional activity. On the other hand, the Computer Science is undeniably the science of the present and of the future as well. The number of students attending the courses in this branch has rapidly increased (today are more than 1200) and, more than that, the graduates of Computer Science study programs (both in Romanian and in English) are extremely competitive on the international labour market of Information Technology. The cooperation agreements between the faculty and a lot of IT companies from Cluj-Napoca and from abroad and a fruitful scientific activity are powerful evidences of the central position of our Department of Computer Science in this field. A very important component of the
Foreword/Welcome from the Dean of the faculty

scientific and didactic activity of the faculty is the Hungarian line of study. The Department of Mathematics and Computer Science of the Hungarian line of study coordinates three Bachelor programs (in Mathematics, Mathematics-Computer Science and Computer Science) as well as, three Master programs (both in Mathematics and in Computer Science) with more than 600 students.

The Doctoral School of Mathematics and Computer Science is another important component of our scientific life. With 18 Ph.D. supervisors, both in Mathematics and Computer Science, and with more than 80 Ph.D. Students, the Doctoral School has today a very strong position at the national level.

At the same time, both Mathematics and Computer Science from Babeș-Bolyai University have at their disposal a wide range of dependable technical and managerial facilities such as highly endowed laboratories, well equipped libraries, modern academic and research programmes, profitable international cooperation.

Cluj-Napoca is known as the born place of János Bolyai, Transylvanian mathematician, known for his work in non-Euclidean geometry. Bolyai’s work was published in 1832 as an appendix to a math textbook by his father Farkas Bolyai. Independently from János Bolyai, N.I. Lobachevsky published in 1929 a similar work on non-Euclidean geometry. Today, these essential contributions are known as Bolyai-Lobachevsky geometry. Of course, we are proud today that the name of our university contains the name of this very famous mathematician.

Cluj-Napoca is today the second largest city in Romania situated in the northwestern part of the country. Geographically, it is roughly equidistant from Bucharest (441 km), Budapest (409 km) and Belgrade (465 km). Located in the Someșul Mic River valley, the city is considered the unofficial capital to the historical province of Transylvania. The past history of Transylvania is strongly connected to the myth of count Dracula, a legend promoted by Bram Stoker’s well-known novel. The source of inspiration of the novel seems to be the figure of a Romanian voivode, “Vlad the Impaler”, ruler of Vallachia, who was born in Sighișoara, a nice historical town in Transylvania.
Managament & Departments

Dean and Vice-deans

<table>
<thead>
<tr>
<th>Role</th>
<th>Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean</td>
<td>Prof. PhD. Adrian PETRUȘEL</td>
</tr>
<tr>
<td>Vice-deans</td>
<td>Assoc.Prof. PhD. Simona MOTOGNA Assoc.Prof. PhD. ROBU Judit Lect. PhD. Marcel Adrian ȘERBAN</td>
</tr>
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</table>

Senate Members

<table>
<thead>
<tr>
<th>Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. PhD. Dumitru DUMITRESCU</td>
</tr>
<tr>
<td>Prof. PhD. Horia F. POP</td>
</tr>
<tr>
<td>Prof. PhD. Radu PRECUP</td>
</tr>
<tr>
<td>Assoc.Prof. PhD. Septimiu CRIVEI</td>
</tr>
<tr>
<td>Lect. PhD. ANDRÁS Szilárd-Károly</td>
</tr>
<tr>
<td>Student Gheorghe POP, master studies</td>
</tr>
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</table>
## Management & Departments

### Faculty Council (2012-2016)

<table>
<thead>
<tr>
<th>Teaching staff</th>
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</thead>
<tbody>
<tr>
<td>Prof. PhD. Agratini Octavian</td>
</tr>
<tr>
<td>Lect. PhD. Andras Szilard-Karoly</td>
</tr>
<tr>
<td>Lect. PhD. Andreica Anca</td>
</tr>
<tr>
<td>Lect. PhD. Bodó Zalán</td>
</tr>
<tr>
<td>Lect. PhD. Bufnea Darius</td>
</tr>
<tr>
<td>Assoc.Prof. PhD. Chiorean Ioana</td>
</tr>
<tr>
<td>Assoc.Prof. PhD. Crivei Septimiu</td>
</tr>
<tr>
<td>Assoc.Prof. PhD. Csató Lehel</td>
</tr>
<tr>
<td>Prof. PhD. Czibula Gabriela</td>
</tr>
<tr>
<td>Lect. PhD. Darabant Sergiu Adrian</td>
</tr>
<tr>
<td>Prof. PhD. Mărcuș Andrei</td>
</tr>
<tr>
<td>Assoc.Prof. PhD. Motogna Simona</td>
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<tr>
<td>Prof. PhD. Pârv Bazil</td>
</tr>
<tr>
<td>Prof. PhD. Petrușel Adrian</td>
</tr>
<tr>
<td>Prof. PhD. Pop Horia-Florin</td>
</tr>
<tr>
<td>Assoc.Prof. PhD. Popovici Nicolae</td>
</tr>
<tr>
<td>Assoc.Prof. PhD. Robu Judit</td>
</tr>
<tr>
<td>Assoc.Prof. PhD. Szenkovits Ferenc</td>
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<tr>
<td>Assoc.Prof. PhD. Soos Anna</td>
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<tr>
<td>Lect. PhD. Săcărea Christian</td>
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<tr>
<td>Lect. PhD. Sterca Adrian</td>
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<tr>
<td>Lect. PhD. Șerban Marcel</td>
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<td>Lect. PhD. Vancea Alexandru</td>
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# Management & Departments

## Faculty Council (2012-2016)

<table>
<thead>
<tr>
<th>Students</th>
<th>Details</th>
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<tbody>
<tr>
<td>Chiorean Bogdan Mihai, Computer Science Romanian III, representing NGOs</td>
<td></td>
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<tr>
<td>Ghele Diana Georgiana, Computer Science English III</td>
<td></td>
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<tr>
<td>Kelemen Fejer Balint, Computer Science Hungarian III</td>
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<tr>
<td>Migea Alin Vasile, Computer Science Romanian I</td>
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<tr>
<td>Miron Raluca Madalina, Master I</td>
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<tr>
<td>Popa Ileana, Master I</td>
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<tr>
<td>Urs Cristina, PhD student</td>
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<tr>
<td>Vultur Paula Lavinia, Mathematics and Computer Science Romanian II</td>
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</table>
**Academic programmes**

**Undergraduate Programmes:**

- Domain Computer Science: Computer Science (In Romanian, Hungarian, and English)
- Domain Mathematics: Mathematics, Mathematics Computer Science (in Romanian, and Hungarian)

**Master's Programmes:**

- Domain Mathematics:
  - Mathematics (in Romanian)
  - Applied Mathematics (in Romanian)
  - Didactic Mathematics (in Romanian and Hungarian)
  - Computational Mathematics (in Hungarian)
- Domain Computer Science:
  - Databases (in Romanian)
  - Distributed Systems in Internet (in Romanian)
  - Software Engineering (in English)
  - Component-Based Programming (in English)
  - Modelling and Simulation (in English)
  - Intelligent Systems (in English)
  - Optimization of Computational Models (in Hungarian)

**Doctoral Programmes:**

- Doctoral School in Mathematics and Computer Science
Undergraduate Programs

Computer Science

Labor market demands highly qualified computer science professionals. This programme offers a coherent approach by combining theoretical knowledge with modern technologies and practical work. The curricula is build using the paradigm “scientist-practitioner”, being inspired from other European computing science programmes, thus ensuring the compatibility of studies in the European Higher Education Area. What is more the undergraduate programme in Computer Science provides the students with the appropriate knowledge and tools for further master degree studies and/or for their professional activity in IT, education, administration, industry or finance and this program is taught in three languages, English, Romanian and Hungarian.

Mathematics

The programme's purpose is to provide the students with the capacity to understand and manipulate the basic concepts of fundamental mathematical structures, to transmit and value the studied knowledge and methods, to permanently learn, understand and apply the most recent scientific results and to understand and approach problems of mathematical nature from other sciences. Furthermore, this bachelor programme in Mathematics provides the students with the appropriate knowledge and tools for further master degree studies and/or for their professional activity in education, administration, industry or finance and is taught in Romanian and Hungarian languages.
Undergraduate Programs

Mathematics & Computer Science

The programme's purpose is to provide the students with the capacity to understand and manipulate the basic concepts and methods of fundamental mathematical structures, of fundamental programming and of software systems development and maintenance, to transmit and value the studied knowledge and methods, to permanently learn, understand and apply the most recent scientific results in Mathematics and Computer Science and to understand and approach, by mathematical and computing tools and methods, problems of mathematical nature from other sciences. Also, The bachelor programme in Mathematics Computer Science provides the students with the appropriate knowledge and tools for further master degree studies and/or for their professional activity in education, IT, administration, industry or finance and this program is taught in Romanian and Hungarian languages.
Master Programs

Mathematics Programme (in Romanian and English)

The Mathematics programme concentrates in the core areas of algebra, analysis, geometry and topology, but it also spills into some specialized themes of pure mathematics, in order to focus the students' knowledge on certain modern themes and to continue their training in modern fields of Mathematics. This programme emphasizes mathematics used in other sciences, in teaching and in new applications of pure mathematics (in computational mathematics, optimization etc) through seminars and case studies. The students will be prepared for either a Ph.D. degree or employment in industry or public service. Students who graduate this programme may activate in any institution or company of the economy and administration in positions requiring the ability to analyze, understand, approach and solve various practical problems whose solutions request a critical, creative and rigorous thinking. As well, the holder of this programme may activate, in the condition of graduating the pedagogical module, as a teacher of Mathematics in any state or private educational institution at all levels.

Applied Mathematics (in Romanian and English)

Applied mathematics focuses on the creation and study of mathematical and computational tools broadly applicable in science and engineering, and on their use in solving challenging problems in these and related fields. From ecological modeling to mechanics, from statistical analysis to mathematical economics, areas of investigation are diverse. The Applied Mathematics master’s program offers advanced theoretical knowledge in this complex and dynamic domain. The program was created to respond to the demand of specialists in mathematical modeling, numerical simulation and statistical analysis for various domains of science, economy and industry. Mathematicians and experts in mathematical modeling in: research, academic and educational institutes, banking system, industry and production companies.
Master Programs

Didactic Mathematics (in Romanian and Hungarian)

Teaching modern mathematics and carrying out various training programmes and methods; drawing up and assessing methods and textbooks for primary and lower secondary education; planning and evaluation of teaching/learning processes, as well as in research methods applied to modern mathematics. This Master Programme has the purpose of broadening the horizon of knowledge and raising the level of competence in Mathematics and in teaching Mathematics. After graduating, the employment opportunities are increased in teaching at different levels: secondary schools, high schools, post high schools and universities. Also, they can perform guidance and control activities at School Territorial Inspectorates.

Computational Mathematics (in Hungarian)

This programme is an excellent opportunity for the graduates of first cycle of higher education to deepen their knowledge and to continue the training in a field of modern theoretical and applied research purposes. The main objective of the program is the formation of high level specialists in this important field. The formation of high school teachers of Mathematics and Computer Science envisaged. The acquirement of a complex knowledge according to the current technological requirements
Master Programs

**Databases**

The Databases master’s program offers theoretical and practical knowledge in information technology and is taught in Romanian language. In recent years there is a growing demand from the students to specialize in areas close to databases, internet communication and applications in different environments. The program was created to respond to that demand, offering theoretical and technical knowledge in information technology and application of theoretical knowledge in databases, information security, web programming, electronic commerce.

**Distributed Systems in Internet**

The information technology is widely used in the global business environment. Virtual shops present in our homes through Web sites, provide the easiest way for the buyer to make everyday purchases. The Distributive Systems in Internet master’s program offers theoretical and practical knowledge in this domain and is taught in Romanian language.

**Software Engineering**

Software development companies need professionals able to build large software systems, incorporating complex interactions and sophisticated mathematical models. The Software Engineering master’s program offers theoretical and practical implementation knowledge in this domain and is taught in English. The curricula is built using the paradigm “scientist-practitioner”, being inspired from other European computing science programmes, thus ensuring the compatibility of studies in the European Higher Education Area.
Component-Based Programming

Component-based programming (CBP) is considered the programming paradigm of the new millennium. Software development companies need professionals able to build component-based software systems, incorporating complex interactions and sophisticated mathematical models. The Component-based programming master's program offers theoretical and practical knowledge in this domain and is taught in English.

Modeling and Simulation

The objectives of this program are the training in the modeling and simulation of various types of problems, the acquisition of the mathematical knowledge necessary in order to tackle complex problems. Also, the acquisition of in-depth knowledge in the modeling / design / implementation of complex applications aimed at simulating various aspects and solving problems specific to natural sciences or economics. At last but not least, the program aims that the students will gain specialized knowledge in the analysis and improvement of software processes and professional modeling for team work as well as interdisciplinary approaches to research and development. Finally, the program is taught in English language.


Master Programs

*Intelligent Systems*

The programme structure covers the main topics in Intelligent Systems and related areas. The aims of the programme are: i) To offer the main conceptual and computational tools of Artificial Intelligence, ii) Develop skills for coping with real world problems, iii) Develop research abilities. Finally, this program is also taught in English.

*Optimization of Computational Models*

This master program present new methods of optimization in data analysis, parallel computing, stochastic search, stochastic modeling of data and simulation methods. The query optimization in databases and cryptography will be presented. The research project in optimization of computational models is an introduction in scientific research practice. This master program gives an overview of the advanced concepts of optimization techniques in different areas of computer science and is taught Hungarian language.
Doctoral Programmes

The Ph.D. programme in Mathematics/Computer Science take place under the guidance of 18 doctoral supervisors in the field of Mathematics and 7 doctoral supervisors in the field of Computer Science.

Core courses:

- Mathematics:
  - Commutative rings and algebraic number Theory, Coding theory, Modular representation of finite groups, Nonsmooth analysis, Nonlinear analysis, Fixed point theory and applications, Convex analysis, Variational calculus, Nonlinear partial differential equations, Fluid mechanics

- Computer Science:
  - Models and implementation of distributed applications, Databases, Distributed artificial intelligence, Games computational theory, Languages, tools and programming media, Software architecture.

The holder of a Ph.D. diploma may activate, on the condition of graduating the pedagogical module, as teacher and as academic staff, in the Specialty of Mathematics or Computer Science in any state or private educational institution at any level including universities. As well the holder of a Ph.D. diploma may activate in any institution or company of the economy and administration on positions requiring the necessity of high level studies in Mathematics or Computer Science.
# SITUATION
students enrolled
ACADEMIC YEAR 2012-2013

<table>
<thead>
<tr>
<th>No</th>
<th>Specialization</th>
<th>Year I</th>
<th>Year II</th>
<th>Year III</th>
<th>No. of graduates</th>
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<tr>
<td>1.</td>
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<td>198</td>
<td>161</td>
<td>151</td>
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<td>Computer Science – english</td>
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<td>5.</td>
<td>Mathematics Computer Science – Romanian</td>
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<td>8.</td>
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## SITUATION
students enrolled
ACADEMIC YEAR 2012-2013

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<th>No</th>
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<tr>
<td></td>
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<td>Year I</td>
<td>Year II</td>
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<tr>
<td>1.</td>
<td>Information Engineering - Hungarian</td>
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<td>2.</td>
<td>Information Engineering - Romanian</td>
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<td>3.</td>
<td>Information engineering - English</td>
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### Master

<table>
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<tr>
<td>1.</td>
<td>Applied Mathematics Romanian</td>
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<td>Didactic Mathematics Romanian</td>
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<tr>
<td>3.</td>
<td>Didactic Mathematics Hungarian</td>
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<td>4.</td>
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<td>5.</td>
<td>Component-Based Programming english</td>
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<td>6.</td>
<td>Intelligent systems english</td>
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<td>9.</td>
<td>Databases - Romanian</td>
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<td>Distributed Systems in Internet – Romanian</td>
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<td>Optimization of Computational Models Hungarian</td>
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# International Cooperation

**International incoming visits:**

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<th>Name</th>
<th>University</th>
<th>Program</th>
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<tbody>
<tr>
<td>Sorana Cîmpan</td>
<td>University of Savomie, France</td>
<td></td>
</tr>
<tr>
<td>Kincses János</td>
<td>University of Szeged, Hungary</td>
<td>Erasmus</td>
</tr>
<tr>
<td>Andi Kivinukk</td>
<td>University of Tallin, Estonia</td>
<td>Erasmus</td>
</tr>
<tr>
<td>Muzsnay Zoltán</td>
<td>University of Debrecen, Hungary</td>
<td>Erasmus</td>
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<tr>
<td>Ján Stoffa</td>
<td>University of J. Selye, Komarno, Slovakia</td>
<td>Erasmus</td>
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<tr>
<td>Körtesi Péter</td>
<td>University of Miskolc, Hungary</td>
<td>CEEPUS</td>
</tr>
<tr>
<td>Veronika Stoffa</td>
<td>University of J. Selye, Komarno, Slovakia</td>
<td>CEEPUS</td>
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<tr>
<td>Blázsik Zoltán</td>
<td>University of Szeged, Hungary</td>
<td>CEEPUS</td>
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<tr>
<td>Stefan Gubo</td>
<td>University of J. Selye, Komarno, Slovakia</td>
<td>CEEPUS</td>
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<tr>
<td>Edwin Brady</td>
<td>University of St Andrews, Scotland</td>
<td>DSL Summer School</td>
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<tr>
<td>Marco Danelutto</td>
<td>University of Pisa, Italy</td>
<td>DSL Summer School</td>
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<tr>
<td>Jeremy Gibbons</td>
<td>University of Oxford, England</td>
<td>DSL Summer School</td>
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<td>Kevin Hammond</td>
<td>University of St Andrews, Scotland</td>
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<td>Jan Kuper</td>
<td>University of Twente, Netherlands</td>
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<tr>
<td>Rinus Plasmeijer</td>
<td>University of Radboud Nijmegen, Netherlands</td>
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<tr>
<td>Joao Saraiva</td>
<td>University of Minho, Portugal</td>
<td>DSL Summer School</td>
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<td>Zoltán Porkoláb</td>
<td>University of Eötvös Loránd Budapest, Hungary</td>
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<tr>
<td>Viktória Zsók</td>
<td>University of Eötvös Loránd Budapest, Hungary</td>
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</table>
International Cooperation

International outgoing visits:

2. Farkas Csaba, 13-20.05.2013, research grant, Paris (France)
3. Breaz Simion, 06-15.08.2012, conference, Szeged (Hungary)
4. Șeceanu Radu, 23.06-10.07.2013, research grant, Wayne State Univ., Detroit (USA)
5. Crivei Septimiu, 12-19.08.2012, research visit, Bielefeld (Germany)
6. Chiorean Ioana, 28.09-07.10.2012, research visit, Innsbruck (Austria)
7. Breckner Brigitte, 02-06.10.2012, research visit, Darmstadt (Germany)
8. Buică Adriana, 23.09-19.10.2012, research visit, Barcelona (Spain)
9. Breckner Brigitte, 03-06.12.2012, research visit, Viena (Austria)
10. Crivei Septimiu, 01-08.06.2013, conference participation, Murcia (Spain)
12. Buică Adriana, 06-13.06.2013, research visit, Barcelona (Spain)
14. Agratini Octavian, 10-17.05, Erasmus,, Univ. of Miskolc (Hungary)
**Partnerships**
This section contains the collaboration with IT companies, high schools, and others events in which the faculty had contributed.

**Collaborations with IT companies**

1) Over 50 partnerships with IT companies (http://www.cs.ubbcluj.ro/despre-facultate/relatia-cu-societatea/firme-partenere/)
2) Annual Meeting – Faculty of Mathematics and Computer Science and IT companies, 28.09.2013 – establishing the common plan and collaboration directions for the 2012-2013 academic year, Main Building, room N. Iorga
3) From November 2012, the Babeş-Bolyai University, and the Faculty of Mathematics and Computer Science are members of the ITCluj, a cluster of IT companies, universities and local authority organizations aiming to enhance the innovation and competitiveness of the regional IT sector.
4) Internship Workshop, 14.03.2013, Foyer University House: 28 software companies presented their internship offer for our students.
5) Companies Evozon and ISDC were involved and made presentations at the course “Software Systems’ Verification and Validation”
6) Company Yonder was involved and made presentation at the course “Web design and optimization” and at the course “Grid, Cluster şi Cloud Computing”
7) Companies BGSoft, Endava, Evozon, Skobbler, Transart, and Yonder sponsored the Knowledge Engineering: Principles and Techniques Conference (KEPT) 2013
8) Companies Siemens and ISDC sponsored Student Scientific Communication Session – Computer Science
Partnerships

Collaboration and representation in the society

1) Over 20 partnerships with schools, high-school, libraries, and NGO's
2) co-organizer “ITeam_net”, T.Popoviciu Highschool Cluj-Napoca, 28.04.2013
3) partner in organizing the National Finals of the contest “History and Civil Society in virtual dimension”, 19-21.04.2013
4) co-organizer, contest “Marian Țarină” (Mathematics and Computer Science), 11-05-2013
5) Contest “Mate-Info UBB”, 13.04.2013
6) co-organizer Inter-County Contest of Applied Mathematics, ECOMAT, Col. Ec. Gh. Dragoș, Satu Mare, 27.04.2013
Conferences Organized by the Faculty

- Theodor Angheluta Seminar  14th International Conference on Applied Mathematics and Computer Science, co-organized by Department of Mathematics, Faculty of Automation and Computer Science, Technical University of Cluj-Napoca and Department of Mathematics, Faculty of Mathematics and Computer Science, Babeş-Bolyai University of Cluj-Napoca, August 29-31, 2013, Cluj-Napoca, Romania

- ICAPM 2013  5th International Conference on Applications of Porous Media, August 25-28, 2013, Cluj-Napoca, Romania

- 3rd Summer School on Data Assimilation and its Applications, July 22 – August 2, 2013, Faculty of Mathematics and Computer Science, Babeş-Bolyai University of Cluj-Napoca

- DSL 2013  5th Summer School on Domain Specific Languages, July 8-20, 2013, Faculty of Mathematics and Computer Science, Babeş-Bolyai University of Cluj-Napoca


Summer Schools

Summer School on Domain Specific Languages

DSL 2013 is a ten-days intensive summer school organised by the Faculty of Mathematics and Informatics targeting the research in domain specific languages. It is the 5th summer school organised within the framework of the Central European Functional Programming School (CEFP), organised between July 8-20, 2013 in Cluj-Napoca. A regular outcome of the summer school

3rd Summer School on Data Assimilation and its Applications

Organized by: Delft University of Technology (TU), Netherlands; Dutch Organization for Applied Scientific Research (TNO), Netherlands; Department of Mathematics, Faculty of Mathematics and Computer Science, Babeş-Bolyai University of Cluj-Napoca, Romania. Period: 22nd July – 2nd August, 2013 Location: Faculty of Mathematics and Computer Science, Babeş-Bolyai Univ
Research Journals of the Faculty

- **Studia Universitatis Babeş-Bolyai, Series Mathematica** (quaterly)
- **Studia Universitatis Babeş-Bolyai, Series Informatica** (quarterly)
- **Fixed Point Theory** (twice)
- **Didactica Matematicii**
Student activities

This section lists the activities organized by the faculty for students and the events and contests where the students of our faculty participated:

1. Contest “Leave your mark of the faculty image”, nov.2012- apr. 2013. Results:
   
   1st place: Strajan Sebastian Ioan  
   2nd place: Pongracz Lajos-Levente  
   3rd place: Mercea Emil

2. UBBots 2013 – Day of Intelligent Robots at UBB (6th edition), 10.03.2013, Campus Building, main hall (organizers:

   Assoc.prof.PhD. Mihai Oltean, PhD students Ovidiu Şerban and Alina Miron). www.ubbots.com

   Sponsors: Betfair, Bitdefender, Evozon, Fortech, Gameloft, Garmin, ISDC, Neusoft, Robofun, SDL, SoftVision, TakeOffLabs, Yardi.

3. ACM programming contest, Bucharest, oct.2012: the faculty participated with 2 teams. Places 23rd, 35th from 78 participants;

4. Imagine CUP, national finals, april 2013, Bucharest. The faculty participated with 2 teams:
   - Raul Incze, Ionuţ Lala, Dochitoiu Cristina (at Game Design)
   - Ionut Căzan, Paul Cîrstean, Alexandru Coman (at World Citizenship)

5. ECN Programming Contest, Tg. Mureş, may 2013. First place for the team of the faculty composed by: Cosmin Tutunaru, Artiom Casapu, Dan Mogoreanu

6. Internship Workshop, 14.03.2013, Foyer University House: 28 software companies presented their internship offer for our students.
**Student activities**


Awards:

- Prize I: Balaci Andrei-George (Mathematics-Computer Science, 1\textsuperscript{st} studying year)
- Prize II: Nechita Mihai (Mathematics-Computer Science, 2\textsuperscript{nd} studying year)
- Prize III: Radu Patricia Teodora (Mathematics-Computer Science, 1\textsuperscript{st} studying year) and Albisoru Andrei Florin (Mathematics-Computer Science, 1\textsuperscript{st} studying year)

. Catalysts Coding Contest, 19.10.2012, Campus Building, 3\textsuperscript{rd} floor
. Catalysts Coding Contest, 26.04.2013, Campus Building, 3\textsuperscript{rd} floor

8. Student Scientific Communication Session – Mathematics, 24.05.2013, Mathematicum Building, room Multimedia

9. Student Scientific Communication Session – Computer Science, organized in cooperation with Technical University, Faculty of Automation and Computer Science, 21.06.2013, at Technical Univ.

Overall prize offered by ISDC (best paper): Bogdan Bondor (UBB)
Comparison of software development process with different server-side technologies.

Faculty prizes (sponsored by Siemens):

1\textsuperscript{st} prize: *OptiMeasure: A Mobile Improvement Alternative to Classic Optical Measurements*
Ispas Mihai, Lare Nicusor-Cosmin, Darabant Sergiu Adrian, Borza Diana-Laura

2\textsuperscript{nd} prize: *WYSST (What You Should See Today)*, Albu Silvana

3\textsuperscript{rd} prize: *Data Visualization using HTML5 Canvas and Javascript*, Beldean Alina
Hermes Society

The student union of the Faculty of Mathematics and Computer Science is a great example of what students can do with the energy of youth and a little help from the university staff. The name of this union is “Hermes Society” and is part of the U.S.R. (Uniunea Studentilor din Romania-Romanian Students' Union) and COS(Consortiul Organizatiilor Studentestii din Cluj-Napoca-Consortium of Student Organisations in Cluj-Napoca). The union seeks to create opportunities for personal development and friendship for the students of the faculty.

The year that has passed a lot of activities were organized both from the Hermes Society and the faculty. Hermes Society organized the following activities:

- Annual Ball which was held on November 2012
- Unifest, a week with a lot of student activities, such as sports, workshops, etc. (a project under the USR aegis)
- Team building: held both at autumn and spring.
- Careers in IT. A career fair which was held on 26-28 March and involved all the main IT companies of Cluj-Napoca in offering internships, jobs, tours and presentations to the students.
- SSMI (Săptămâna Studentilor de la Matematică și Informatică): Student's week on 22-26 April 2013 with 2 conferences with international speakers, workshops on mathematics and on computer science, movie night and folk music night.
- Social Hackaton: 24h programming contest for student teams for creating desktop, mobile and web applications
- Promotion Caravan: students from the Hermes Society tour the best high schools in Transylvania to attract students to come and study at the faculty of Mathematics & CS. It was held for first time this year and it went very good.

Because many members also have representative attributions
Hermes Society

(year representatives, faculty council members, student chancellor, and student senator) the Society is able to contribute to the well being of all the students of the faculty and insures the swift resolution of all student problems.

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Lectures, events and ceremonies organized by the faculty

1. Faculty awards: at the official opening of the academic year, 1st oct. 2012, the faculty awarded prizes in recognition of outstanding academic and research activities to the following people:
   - Prof. PhD. Gabriela Czibula, Dept. of Computer Science, outstanding research (ISI articles)
   - Assoc.Prof.PhD. Teodor Groşan, Dept. of Mathematics, outstanding research (ISI articles)
   - Assoc.Prof.PhD. Csato Lehel, Dept. of Hungarian Line, Dept. of Mathematics, outstanding research (PhD student supervision)
   - Assoc.Prof.Simona Motogna, Dept. of Computer Science, outstanding education, mentor – 2nd place Worldwide imagine Cup Finals
   - Prof.PhD. Radu Precup. Dept. of Mathematics, outstanding education, international published book
   - Lect. PhD. ANDRÁS Szilárd, dept. of Hungarian Line, outstanding education, lifelong educational program

2. Conference “The cut polytope and the image of the correlation map”, Speaker PhD. Orest Bucicovschi (University of California, San Diego), 06.02.2013, Mathematicum Building, room e

3. Conference “From Verification to Specification Inference”, Speaker Prof. PhD. Wei-Ngan Chin (Department of Computer Science, National University of Singapore), 25.02.2013, Campus Building, room C310

4. Conference “On Subset Sums”, Speaker Prof. Endre Szemerédi (Abel Prize Winner 2012), Professor of Computer Science at Rutgers University and Alfréd Rényi Institute of Mathematics Budapest, 05.03.2013, room Tiberiu Popovici
Lectures, events and ceremonies organized by the faculty

5. Conference “Jamming and Clogging Transitions for Systems with Quenched Disorder”, Speaker Dr. Charles Reichhardt Theoretical Division, Los Alamos National Laboratory, Los Alamos, USA, 07.03.2013, room Augustin Maior


7. Astronomy Exhibition “Discover the Universe”


8. IBM Solutions for efficient academic education - High Performance Computing, 26.04.2013, room T.Popoviciu

9. XXIX National Conference of Didactic Mathematics, Ibănești Pădure, 18.05.2013

10. Organized by Faculty of Mathematics and Computer Science in cooperation with Society of Mathematical Sciences of counties Cluj and Mureș, School Inspectorate of county Mureș and Gymnasium School.

11. Ceremony of awarding the title Profesor Honoris Causa of Faculty of Mathematics and Computer Science to Professor
Lectures, events and ceremonies organized by the faculty

Preda Mihăilescu, Ph.D., Georg August University, Göttingen, Germany, 30.05.2013, room T.Popoviciu.

12. Ceremony of awarding the title Doctor Honoris Causa of Babeş-Bolyai University to mathematician Professor Boris S. Mordukhovich, Ph.D., Wayne State University, USA, 12.06.2013, Aula Magna UBB.

13. Conference “A look at the third stage of Fourier Analysis”, Prof.PhD. Constantin Corduneanu, University of Texas at Arlington, SUA, 25.06.2013, room Tiberiu Popoviciu.

14. Conference “Equilibria and Weighted Complementarity Problems”, Speaker Prof. Florian Potra, University of Maryland, Baltimore County, SUA, 18 iulie 2013, ora 12:00 Mathematicum Building, room e
Department of Mathematics

Profile

The department is responsible for the specialization Mathematics. The purpose of the programme is to offer the following competences:

- to teach fundamental knowledge in mathematics
- to elaborate algorithms and use modern computer systems.
- to generate and implement new scientific and didactic approaches and methods.
- to use basic and complementary knowledge in pursuing a master program in the field of Mathematics or related fields.

Generally, by graduating from this program, there is a wide range of potential field of professional activity. The holder of a bachelor diploma in Mathematics may activate, under the condition of graduating the pedagogical module, as teacher in the Specialty of Mathematics in any state or private educational institution of gymnasium level. What is more, the holder can also pursue a job in administration, industry, finance or computer science.

The research conducted in the department is organized in nine research groups, with outstanding members and results. There are 3 scientific journals published under the supervision of the department, and each year we are organizing important international conferences.
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   Domains of interest: Statistics Applied in Economy, Time Series
25. TUDOR Andreea, Doctoral Student
   E-mail: andreea.tudor[at]ubbcluj.ro
   Domains of interest: Complex Analysis, Geometric Function Theory
26. ULUII Elena Maria, Doctoral Student
27. URS Cristina, Doctoral Student
   E-mail: cristina.urs[at]math.ubbcluj.ro
   Domains of interest: Nonlinear Operators and Differential Equations, Fixed Point Theory
28. ZAGREAN Delia, Doctoral Student
Research groups in the field of Mathematics


2. **Analysis and Optimization** -
   http://www.cs.ubbcluj.ro/~grupanopt/


6. **Nonlinear operators and differential equations** -
   http://www.math.ubbcluj.ro/~nodeacj/soned.html

7. **Numerical analysis and stochastic** -


1. **FECHETE Dorina – Lucia** - Contribuții la studiul unor construcții algebrice. Aspecte categoriale și aplicații la aritmetica numerelor fuzzy, advisor: Prof. univ. dr. PURDEA Ioan

2. **REVNIC Vasile** - Cercetări de teorie Morse discretă și aplicații, advisor: Prof. univ. dr. ANDRICA Dorin

3. **FRĂTEAN Alina Ramona (căs. BAIAS)** - Dual Representations and Subdifferential Formulae for Convex Risk Functions. Contributions to extension Theorems for Set-Valued Maps, advisor: Prof. univ. dr. DUCA Dorel

4. **MANGRA Dana- Maria** - Cercetări de teorie Morse circulară și aplicații, advisor: Prof. univ. dr. ANDRICA Dorin

5. **BARBU Ionel – Cătălin** - Contribuții la studiul geometriei hiperbolice, advisor: Prof. univ. dr. ANDRICA Dorin

6. **FERICEAN Denisa Gabriela** - Techniques of potential theory and geometric function theory in the study of some problems in fluid mechanics, adviser: Prof. univ. dr. KOHR Mirela

7. **ROHAN L. Ramona – Andreea** - Cercetări asupra aplicației exponențiale și mecanica geometrică, adviser: Prof. univ. dr. ANDRICA Dorin

8. **TARABIE Saddika** - Contributions to Korovkin - type approximation, adviser: Prof. univ. dr. AGRATINI Octavian

9. **POP Emilia – Loredana** - Duality and optimality conditions in vector optimization, adviser: Prof. univ. dr. DUCA Dorel

10. **BONCEA Horațiu – Vasile** - Duality and Approximation for Special Classes of Optimization Problems, adviser: Prof. univ. dr. DUCA Dorel

11. **AŞTEFĂNOAEI Alina - Mihaela (BABOȘ)** - Reprezentări și evaluări ale restului în formule de interpolare și de integrare numerică cu aplicații, adviser: Prof. univ. dr. BLAGA Petru

12. **BUDIŞAN Sorin – Monel** - Compression - expansion theorems of Krasnoselskii type and applications, adviser: Prof. univ. dr.
PhD Thesis

PRECUP Radu

13. **PĂTRULESCU Flavius – Olimpiu** - Ordinary Differential Equations and Contact Problems: Modeling, Analysis and Numerical Methods, advisers: Prof. univ. dr. AGRATINI Octavian, Prof. univ. dr. SOFONEA Mircea (Via Domitia University of Perpigan)

14. **PETRE Ioan – Radu** - Incluziuni operatoriale prin tehnica punctului fix în spații metrice vectoriale, adviser: Prof. univ. dr. PETRUŞEL Adrian

15. **TUNS Oana - Ruxandra (cas. BODE)** - Particular optimization problems with application in economy, adviser: Prof. univ. dr. LUPŞA Liana

16. **CIOBAN Liana** - Contributions to the theory of variational inequalities, equilibrium and optimization problems via duality, adviser: Prof. univ. dr. DUCA Dorel

17. **BUTACI Casian** - Solvency II: Solvabilitatea societăților de asigurare, advisers: Prof. univ. dr. PETRUŞEL Adrian Adrian, Prof. univ. dr. TULAI Constantin

18. **COCOMEŢ Tiberiu** - Group actions and modular representation theory, adviser: Prof. univ. dr. MĂRCUŞ Andrei
Publications

Books - international publishing houses


Articles – ISI journals

1. Agratini Octavian, *On a double complex sequence of linear operators*, Science_Citation_Expanded, NUMERICAL FUNCTIONAL ANALYSIS AND OPTIMIZATION, 34, issue 6, 2013, P.605 - 612


4. Crivei Septimiu, Olteanu Gabriela-Eugenia, Inankil Hatice, Kosan Muhammet Tamer, *Correspondences of coclosed submodules*, Science_Citation_Expanded, COMMUNICATIONS IN
5. Crivei Septimiu, Bazzoni Silvana, One-sided exact categories, Science_Citation_Expanded, JOURNAL OF PURE AND APPLIED ALGEBRA, 217, 2013, P.377 - 391

6. Hamada Hidetaka, Kohr Gabriela, Univalence criterion and quasiconformal extension of holomorphic mappings, Science_Citation_Expanded, MANUSCRIPTA MATHEMATICA, 141, 2013, P.195 - 209


11. Kohr Mirela, Lanza de Cristoforis Massimo, Wendland Wolfgang L., Nonlinear Neumann -transmission problems for Stokes and Brinkman equations on Euclidean Lipschitz domains,


15. Pintea Cornel Sebastian, *Global injectivity conditions for planar maps*, Science_Citation_Expanded, MONATSHEFTE FUR MATHEMATIK, DOI 10.1007/s00605-012-0474-x, 2013, P.1 - 15


18. Trif Damian, Petrlila Sonia, *A fixed-point approach of a parachute problem*, Science_Citation_Expanded, FIXED POINT THEORY, 14, 1, 2013, P.161 - 170

20. Agratini Octavian, Statistical convergence of integral operators generated by a single kernel, Science_Citation_Expanded, NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS, Vol. 75, Number 8, 2012, P.3465 - 3469

21. Blaga Petru, Catinas Teodora-Maria, Coman Gheorghe Bernstein-Type Operators on Triangle with One Curved Side , Science_Citation_Expanded, MEDITERRANEAN JOURNAL OF MATHEMATICS, 9 , 2012, P.843 - 855

22. Bota Monica-Felicia, Karapinar Erdal, A COMMON FIXED POINT FOR WEAK PHI- CONTRACTIONS ON B-METRIC SPACES, Science_Citation_Expanded, FIXED POINT THEORY, 13, 2012, P.337 - 346

23. Bota Monica-Felicia, Petru Tunde Petra, ULAM-HYERS STABILITY OF OPERATORIAL INCLUSIONS IN COMPLETE GAUGE SPACES, Science_Citation_Expanded, FIXED POINT THEORY, 13, 2012, P.641 - 650

24. Breaz Simion-Sorin, Schultz Phill , WHEN EXT COMMUTES WITH DIRECT SUMS, Science_Citation_Expanded, JOURNAL OF ALGEBRA AND ITS APPLICATIONS, 11, no. 5, 2012, P.1 - 4


26. Buica Florina Adriana, Llibre Jaume, Makarenkov Oleg, Bifurcations from nondegenerate families of periodic solutions in Lipschitz systems, Science_Citation_Expanded, JOURNAL OF


30. Calugareanu Grigore, *On Abelian groups with commutative clean endomorphism rings*, Science_Citation_Expanded, ANALELE STIINTIFICE ALE UNIVERSITATII AL I CUZA DIN IASI-SERIE NOUA-MATEMATICA, 58, 2, 2012, P.227 - 238

31. Calugareanu Grigore, Contiu Carolina, *On type 1 representable lattices of dimension less or equal than 4*, Science_Citation_Expanded, ALGEBRA UNIVERSALIS, 67, 2, 2012, P.131 - 139


33. Chiorean Ioana-Rodica, Nut Gabriela Florentina, Crisan Maria, *The Finite Element method applied to a Problem of Blood Flow in
Publications

34. Crivei Septimiu, Maximal exact structures on additive categories revisited, Science_Citation_Expanded, MATHEMATISCHE NACHRICHTEN, 285, 2012, P.440 - 446

35. Crivei Septimiu, Nastasescu Constantin, Nastasescu Laura, A generalization of the Mitchell Lemma: The Ulmer Theorem and the Gabriel-Popescu Theorem revisited, Science_Citation_Expanded, JOURNAL OF PURE AND APPLIED ALGEBRA, 216, 2012, P.2126 - 2129


37. Rosca Alin-Vasile, Rosca Natalia-Carmen, Grosan Teodor Silviu, Pop I., Non-Darcy mixed convection from a horizontal plate embedded in a nanofluid saturated porous media, Science_Citation_Expanded, INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, 39, 2012, P.1080 - 1085


39. Hamada Hidetaka, Graham Ian, Kohr Gabriela, Kohr Mirela, Extreme points, support points and the Loewner variation in several complex variables, Science_Citation_Expanded, SCIENCE IN CHINA SERIES A-MATHEMATICS, 55(7), 2012, P.1353 - 1366
Publications


41. Modoi George-Ciprian, *A representability theorem for some huge abelian categories*, Science_Citation_Expanded, HOMOLOGY HOMOTOPY AND APPLICATIONS, 14(2), 2012, P.23 - 36


44. Petrusel Adrian-Olimpiu, Ceng Lu-Chuan, Lin L.J., *Hybrid method for designing explicit hierarchical fixed point approach to monotone variational inequalities*, Science_Citation_Expanded, TAIWANESE JOURNAL OF MATHEMATICS, 16, no.4, 2012, P.1531 - 1555


47. **Popovici Nicolae, Rocca Matteo**, *Decomposition of vector variational inequalities*, Science_Citation_Expanded, NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS, 75 (3), 2012, P.1516 - 1523


49. **Precup Radu**, *Critical point theorems in cones and multiple positive solutions of elliptic problems*, Science_Citation_Expanded, NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS, 75, 2012, P.834 - 851

50. **Precup Radu, Trif Damian**, *Multiple positive solutions of non-local initial value problems for first order differential systems*, Science_Citation_Expanded, NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS, 75, No. 15, 2012, P.5961 - 5970

51. **Trif Tiberiu-Vasile**, *Statistical approximation by Meyer-Koenig and Zeller operators of finite type based on the q-integers*, Science_Citation_Expanded, MATHEMATICAL AND COMPUTER MODELLING, 55, 2012, P.1866 - 1875

52. **Trif Damian**, *Direct operatorial tau method for pantograph–type equations*, Science_Citation_Expanded, APPLIED MATHEMATICS AND COMPUTATION, 219, 2012, P.2194 - 2203

53. **Trif Tiberiu-Vasile**, *Approximation of functions of bounded variation by integrated Meyer-Koenig and Zeller operators of finite type*, Science_Citation_Expanded, STUDIA SCIENTIARUM MATHEMATICARUM HUNGARICA, 49, 2012, P.254 - 268
Publications

Articles – journals indexed in international databases


Publications


Editing – international volumes


International Conferences


Prizes

Publications

Visiting professors

1. Precup Radu, University of Sfax, Tunisia, conference an PhD coordination, Tunisia, Sfax, 2013


3. Kohr Gabriela, University of Stuttgart, Department of Mathematics, Research visit, Germania, Stuttgart, 2013

4. Kohr Mirela, University of Stuttgart, Department of Mathematics, Research visit, Germania, Stuttgart, 2013

5. Kohr Gabriela, Department of Mathematics, University of Toronto, Canada, Toronto, 2013

6. Kohr Mirela, Department of Mathematics, University of Toronto, Canada, Toronto, 2013

Invited lecture - conferences

1. Kohr Gabriela, Pedagogical University and Pawel Wlodkowic University College in Plock (Poland), 9th International ISAAC Congress, 2013, Extremal properties associated with the generalized Loewner differential equation in Cn.

2. Kohr Gabriela, American Mathematical Society in partnership with the Simion Stoilow Institute of Mathematics of the Romanian Academy, Joint International Meeting of the AMS and the Romanian Mathematical Society, 2013,


11. Kohr Gabriela, *University of Padova, Department of Mathematics*, research seminar, 2012

Publications

Geometric and analytic approaches of Loewner chains and Loewner differential equations in Cn.


15. Kohr Mirela, \textit{University of Padova, Department of Mathematics} Mini-courses in Mathematical Analysis 2012, Potential analysis for elliptic boundary value problems on Lipschitz domains.


boundary value problems on Lipschitz domains.

20. **Kohr Mirela**, *University of Toronto, Department of Mathematics*, seminar talk, 2012


Projects

**National Projects – coordinator/director**

1. **Breaz Simion-Sorin**, *Functori definiti pe categorii de module*, UEFISCDI, ALGEBRA, LOGICA SI TEORIA NUMERELOR, 2012 - 2013,


4. **Kohr Gabriela**, *Aspecte geometrice si analitice ale aplicatiilor biolomorfe in $C^n$ si spati Banach complexe*, UEFISCDI, FUNCTII DE VARIABILE COMPLEXE SI TEORIA POTENTIALULUI, 2012 - 2013

5. **Kohr Mirela**, *Probleme cu valori pe frontiera pentru sistem eliptice pe domenii neneted cu aplicatii in mecanica fluidelor*, UEFISCDI, MECANICA SI ASTRONOMIE, 2012 - 2013


8. **Popovici Nicolae**, *CERCETARI AVANSATE PRIVIND PROBLEME*
Projects

**DE OPTIMIZARE VECTORIALA, MULTIVOCA SI INEGALITATI VARIATIONALE IN IPOTEZE DE CONVEXITATE GENERALIZATA, CNCSIS II, ANALIZA FUNCTIONALA, TEORIA OPERATORILOR, ANALIZA CONVEXA, 2012**

9. **Precup Radu**, *Metode operatoriale pentru sisteme neliniare si aplicatii*, UEFISCDI, ECUATII DIFERENTIALE, INTEGRALE SI CU DERIVATE PARTIALE, 2012 - 2013


**International and national projects – members**

1. **Blaga Cristina-Olivia** - *PRIMAS - Promoting inquiry in Mathematics and science education across Europe*, European Commision II, ECUATII DIFERENTIALE, INTEGRALE SI CU DERIVATE PARTIALE, 2010-2013

2. **Bota Monica-Felicia** - *Metode operatoriale pentru sisteme neliniare si aplicatii*, UEFISCDI, ECUATII DIFERENTIALE, INTEGRALE SI CU DERIVATE PARTIALE, 2011-2014


4. **Chiorean Ioana-Rodica** - *Produse dermatologice pe baza de biomateriale hibride obtinute din antociani si nanoparticule metalice (NATNANOMED)*, UEFISCDI, CHIMIE ORGANICA SI COMPUSI
Projects

NATURALI, 2012-2014


Projects


18. **Serban Marcel-Adrian** - *Metode operatoriale pentru sisteme nelineare si aplicatii*, UEFISCDI, ECUATII DIFERENTIALE, INTEGRALE SI CU DERIVATE PARTIALE, 2011-2014
Representations in professional organizations

1. **Vacaretu Daniel**, Societatea de Stiinte Matematice din Romania, from 1983 - member
2. **Precup Radu**, American Mathematical Society, from 1993 - member
3. **Precup Radu**, Research Group in Mathematical Inequalities and Applications (RGMIA), from 2004 - member
4. **Precup Radu**, Societatea de Stiinte Matematice din Romania, from 1982 - member
5. **Petrusel Adrian-Olimpiu**, International Society of Mathematical Sciences, Osaka, Japan, from 2008 - member
7. **Petrusel Adrian-Olimpiu**, Societatea Europeana de Matematica, from 2003 - member
8. **Petrusel Adrian-Olimpiu**, Societatea de Stiinte Matematice din Romania, from 1994 - member
9. **Pelea Cosmin-Razvan**, AMS, from 2008 - member
10. **Pelea Cosmin-Razvan**, SSMR, from 2000 - member
11. **Kohr Mirela**, American Mathematical Society, from 2006 - member
12. **Kohr Mirela**, GAMM, from 1995 - member
13. **Kohr Mirela**, European Science Foundation (ESF), from 2010 - member
14. **Kohr Gabriela**, American Mathematical Society, from 2006 - member
15. **Kohr Gabriela**, GAMM, from 1995 - member
16. **Kohr Gabriela**, European Science Foundation (ESF), from 2010 member
17. **Kohr Gabriela**, Societatea de Stiinte Matematice din Romana from 2005 - member
18. **Crivei Septimiu**, American Mathematical Society, from 2004 - member
19. **Crivei Septimiu**, Societatea de Stiinte Matematice din Romania, from 1995 - member
21. **Breaz Simion-Sorin**, Societatea de Stiinte Matematice din
Representations in professional organizations

23. **Blaga Cristina-Olivia**, International Astronomy Olympiad, from 2006 – national representant
25. **Blaga Aurel-Paul**, TeX Users Group (TUG), from 2006 - member
27. **Andrica Dorin**, Societatea Balcanica a Geometrilor, from 1993 - founder
28. **Andrica Dorin**, Academia Romano-Americana (ARA), from 2002 – corresponing member
29. **Andrica Dorin**, Societatea de Stiinte Matematice din Romania, from 1977 - member
30. **Agratini Octavian**, American Mathematical Society, from 1997 - member
31. **Agratini Octavian**, Societatea de Stiinte Matematice din Romania, from 2008 – member
32. **Popovici Nicolae**, SSMR, from 2012, member
33. **Popovici Nicolae**, American Mathematical Society, from 2012, member
34. **Popovici Nicolae**, EUROPT (The Continuous Optimization Working Group of EURO - Association of European Operational Research Societies), from 2012, member
35. **Popovici Nicolae**, WGGC (Working Group on Generalized Convexity), from 2012, member
36. **Popovici Nicolae**, MCDM (International Society on Multiple Criteria Decision Making), from 2012, member
Representations in professional organizations

Public representations

1. **Agratini Octavian**, Consiliul National de Atestare a Titlurilor, Diplomelor si Certificatelor Universitare (CNATDCU), 2012, member, Commission Mathematics
2. **Agratini Octavian**, Consiliul National de Atestare a Titlurilor, Diplomelor si Certificatelor Universitare (CNATDCU), 2013, member, Commission Mathematics
3. **Agratini Octavian**, Agentia Nationala de Asigurare a Calitatii in Invatamantul Superior (ARACIS), from 2012, evaluating expert
5. **Kohr Mirela**, CNCSIS, from 2011, evaluating expert

International Editorial Boards:

1. **Agratini Octavian**, Facta Universitatis, Nis, Serbia, from 2006, member
2. **Agratini Octavian**, Mathematical Reviews, from 1997, reviewer
3. **Agratini Octavian**, Open Journal of Discrete Mathematics, from 2011, member
4. **Agratini Octavian**, Studia Universitatis Babes-Bolyai, Mathematica, from 2011, editor in chief
5. **Agratini Octavian**, Mathematica, Cluj, from 2006, member
7. **Andrica Dorin**, Studia Univ.Babes-Bolyai-Mathematica, from 1997, member
8. **Andrica Dorin**, General Mathematics, from 2001, member
9. **Andrica Dorin**, Acta Universitatis Apulensis, from 2004, member
10. **Andrica Dorin**, Creative Mathematics and Informatics, from 2005, member
12. **Andrica Dorin**, Mathematica, 2006, member
13. **Blaga Aurel-Paul**, The PracTeX Journal, from 2006, Production
Representations in professional organizations

Editor

14. Buica Florina Adriana, FIXED POINT THEORY, from 2006, Associate Managing Editor
18. Lisei Hannelore-Inge, JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS, from 2012, guest editor
22. Petrusel Adrian-Olimpiu, FIXED POINT THEORY, from 2003, Managing Editor
23. Precup Radu, Mathematics in Engineering, Science and Aerospace MESA, from 2010, member of the Editorial Board
26. Precup Radu, CARPATHIAN JOURNAL OF MATHEMATICS, from 2005, member
27. Precup Radu, JOURNAL OF INEQUALITIES AND APPLICATIONS, from 2009, member
28. Precup Radu, FIXED POINT THEORY, from 2003, Deputy editor-in-chief
Representations in professional organizations

32. **Salagean Grigore-Stefan**, Journal of Applied Computer Science & Mathematics, from 2007, member
33. **Agratini Octavian**, STUDIA UNIVERSITATIS BABES-BOLYAI. MATHEMATICA, from 2003, member
34. **Andrica Dorin**, Gazeta Matematica, from 1996, member
35. **Breaz Simion-Sorin**, MATHEMATICA, from 2002, redaction secretary
36. **Breaz Simion-Sorin**, STUDIA UNIVERSITATIS BABES-BOLYAI. MATHEMATICA, from 2010, Editor
37. **Breckner Brigitte-Erika**, MATHEMATICA, from 2007, redaction secretary
38. **Catinas Teodora-Maria**, STUDIA UNIVERSITATIS BABES-BOLYAI. MATHEMATICA, from 2005, secretary
39. **Chiorean Ioana-Rodica**, STUDIA UNIVERSITATIS BABES-BOLYAI. MATHEMATICA, from 2004, reviewer
40. **Crivei Septimiu**, MATHEMATICA, from 2001, scientifi secretary
41. **Duca Dorel**, Didactica Mathematica, from 1999, Editor-in-Chief
42. **Duca Dorel**, Universul matematic, from 2000, member
43. **Duca Dorel**, Creatii matematice, seria A, from 2006, honorary member
44. **Duca Dorel**, Creatii matematice, seria B, from 2006, honorary member
45. **Duca Dorel**, Revista de matematica Transilvania, from 1998, member
46. **Duca Dorel**, Educatia Matematica, from 2004, member
47. **Duca Dorel**, REVUE D'ANALYSE NUMERIQUE ET DE THEORIE DE L'APPROXIMATION REVUE D'ANALYSE NUMERIQUE ET DE THEORIE DE L'APPROXIMATION, from 1983, redaction secretary
Representations in professional organizations

48. **Duca Dorel**, CREATIVE MATHEMATICS, from 2006, member
49. **Grad Anca**, Didactica Mathematica, from 2010, Managin Editor
50. **Kohr Gabriela**, MATHEMATICA, from 2007, member
51. **Kohr Mirela**, STUDIA UNIVERSITATIS BABES-BOLYAI. MATHEMATICA, from 2010, member
52. **Lisei Hannelore-Inge**, STUDIA UNIVERSITATIS BABES-BOLYAI. MATHEMATICA, from 2011, scientific secretary
53. **Lupsa Liana**, ANNALS OF THE TIBERIU POPOVICIU SEMINAR OF FUNCTIONAL EQUATIONS, APPROXIMATION AND CONVEXITY, from 2003, editor
54. **Petrusel Adrian-Olimpiu**, STUDIA UNIVERSITATIS BABES-BOLYAI. MATHEMATICA, from 2004, member
55. **Petrusel Adrian-Olimpiu**, MATHEMATICA, from 2005, member
56. **Pintea Cornel Sebastian**, STUDIA UNIVERSITATIS BABES-BOLYAI. MATHEMATICA, from 1995, member
57. **Popovici Nicolae**, MATHEMATICA, from 2006, editor
58. **Precup Radu**, TRANSYLVANIAN JOURNAL OF MATHEMATICS AND MECHANICS, from 2009, Anul de sfarsit: in prezent, member

**Reviewer for international and national journals:**


2. **Crivei Septimiu**: JOURNAL OF ALGEBRA AND ITS APPLICATIONS, COMMUNICATIONS IN ALGEBRA.
Representations in professional organizations


4. **Lisei Hannelore-Inge**: JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS, NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS.

5. **Popovici Nicolae**: ACTA MATHEMATICA SCIENTIA, APPLIED MATHEMATICS LETTERS, OPTIMIZATION, JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS, OPTIMIZATION, APPLIED MATHEMATICS AND COMPUTATION, STUDIA

Members of the Organizing and Scientific Committees of International Conferences:

1. **Grosan Teodor Silviu**, 5th International Conference of Applications of Porous Media, Romania, 2013,
2. **Kohr Mirela**, 5th International Conference on Applications of Porous Media, Romania, 2013,
3. **Pelea Cosmin-Razvan**, Algebra Symposium, Romania, 2013,
5. **Kohr Mirela**, International Symposium on Geometric Function Theory and Applications (GFTA 2012), Macedonia, 2012,
Representations in professional organizations


8. Precup Radu, International Conference on Fixed Point Theory and Applications ICFPTA-2012, Romania,

Profile

The department is responsible for organizing studies in the domain of Computer Science. The bachelor degree provides the students with the appropriate knowledge and tools for further master degree studies and/or for their professional activity in IT, education, administration, industry or finance.

The purposes of the programme are the following
· to teach fundamental concepts of computer science and mathematics
· to teach problem-solving methods and techniques
· to teach how to use software engineering concepts and methods in software development and maintenance
· to give students the appropriate knowledge and skills related to design and administration of database systems and computer networks
· to teach students new scientific and didactic approaches
· to give students the appropriate motivation and abilities
related to team work, professional communication and development.

The holder of this diploma may activate in any institution or company, occupying positions like analyst, programmer, developer, system designer, system engineer, network/database administrator, software project manager, computer science consultant, administrator of educational platforms. If the holder of diploma is also a graduate of the pedagogical module, he/she may be a teacher of Computer Science in any educational institution of gymnasial level.

The research activities in the department are organized in seven research groups, in different fields of Computer Science. The department supervises one research journal, and organizes an international conference every odd year, and a national conference every even year.
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   http://www.cs.ubbcluj.ro/~ica/

3. Programming and Software Engineering


5. Distributed Systems and Web Communications

6. Interdisciplinary Applications

7. DATAMIN (http://datamin.ubbcluj.ro/)

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1. **NAGY Reka** - Evolutionary Techniques in Computational Game Theory, adviser: Prof. univ. dr. DUMITRESCU Dumitru

2. **BOCSI E.A. Botond – Attila** - Model Learning for Robot Control, adviser: Prof. univ. dr. POP Horia – Florin

3. **LEFKOVITS Szidónia** - Metode robuste de detecție a obiectelor cu aplicații în detecția facială, adviser: Prof. univ. dr. POP Horia F.
Publications

Articles in national journals


Proceeding of ISI and professional conferences


10. COMBEMALE Benoît, Chiorean Ioan Danut, COMBEMALE Benoît, *The 8th Educators' Symposium @ MODELS 2012: software modeling in education*, conferinta ISI, MODELS 2012 - Educator's Symposium, Proceedings of the 8th edition of the
Publications


Publications

conferinta ISI, GECCO, 1, ACM, New York, USA, Editor: Terence Soule, 978-1-4503-1177-9 , , 2012, P. 489-496


Proceeding of international conferences (indexed in international databases)


Editor – national volumes


Prizes

1. Czibula Gabriela, UBB Prize for scientific excellence 2012
Publications

Invited conferences


Articles in ISI journals


5. DARABANT Laura , Darabant Sergiu Adrian, Magnetic Stimulation of the Spinal Cord: Experimental Results and Simulations, Science_Citation_Expanded, IEEE TRANSACTIONS ON MAGNETICS, 49, 2013, P.1845 - 1848

6. Pop Horia-Florin, Sarbu Costel, A new fuzzy discriminant analysis method, Science_Citation_Expanded, MATCH-
Publications

COMMUNICATIONS IN MATHEMATICAL AND IN COMPUTER CHEMISTRY, 69, 2, 2013, P.391 - 412

7. Czibula Gabriela, Czibula Istvan-Gergely, Unsupervised Restructuring of Object-Oriented Software Systems using Self-Organizing Feature Maps, Science_Citation_Expanded, INTERNATIONAL JOURNAL OF INNOVATIVE COMPUTING INFORMATION AND CONTROL, Volume 8, Number 3(A), 2012, P.1689 - 1704


9. MARIAN Zsuzsanna-Edit, Czibula Gabriela, Czibula Istvan-Gergely, Using software metrics for automatic software design improvement, Science_Citation_Expanded, STUDIES IN INFORMATICS AND CONTROL, 21, 3, 2012, P.249 - 258

10. Cremene Ligia, Dumitrescu Dumitru, Analysis of Cognitive Radio Scenes Based on Non-cooperative Game Theoretical Modelling, Science_Citation_Expanded, IET COMMUNICATIONS, 6, 2012, P.1876 - 1883

Articles – journals indexed in international databases


Publications


Projects

National Projects – coordinator/director

1. **Chira Camelia**, *EMERGENTA, AUTO-ORGANIZARE SI EVOLUTIE: NOI MODELE COMPUTATIONALE IN STUDIUL SISTEMELOR COMPLEXE*, proiect national, CNCSIS II, MODELARE SI TEORIA CALCULULUI, 2012 - 2013,

2. **Pop Horia-Florin**, *S-GAIA: Sistem pentru gestiunea si analiza inteligenta a datelor medicale in vederea imbunatatirii strategiilor de raspuns in cazul unor afectiuni acute si cronice*, proiect national, UEFISCDI, SISTEME SOFTWARE, 2012 - 2013,


International projects

1. **Grosan Crina Daniela**, *IPROCOM*, proiect international, Comisia Europeana II, ALGEBRA, LOGICA SI TEORIA NUMERELE, 2013,

International and national projects – member


2. **Boian Florian-Mircea** - *Formarea profesionala a cadrelor didactice din invatamantul preuniversitare pentru noi oportunitati de dezvoltare in cariera*, AMPOSDRU, Profesionisti in educatie si formare, 2010-2012

Projects


Representations in professional organizations
Members of Editorial Boards of International and National Journals

2. Grebla Horea-Adrian, Broad Research in Artificial Intelligence and Neuroscience, from 2010, copyeditor
3. Grosan Crina Daniela, International Journal of Computational Intelligence Research, from 2008, Editor
5. Grosan Crina Daniela, International Journal of Theoretical and Applied Computer Sciences, from 2007, Editor
10. Pop Horia-Florin, Scientific Bulletin of the "Petru Maior" University of Tîrgu Mureș, from 2010, member
14. Frentiu Militon, STUDIA UNIVERSITATIS BABES-BOLYAI. INFORMATICA, from 1995, redactor
15. Guran Adriana-Mihaela, REVISTA ROMANA DE INTERACTIUNE OM - CALCULATOR, from 2010, member
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16. **Motogna Simona-Claudia**, STUDIA UNIVERSITATIS BABES-BOLYAI. INFORMATICA, from 2006, member

17. **Parv Bazil**, ACTA UNIVERSITATIS APULENSIS - MATHEMATICS - INFORMATICS, from 2001, member

18. **Parv Bazil**, STUDIA UNIVERSITATIS BABES-BOLYAI. INFORMATICA, from 1996, member


Reviewers of Editorial Boards of International and National Journals

1. **Czibula Gabriela**, Studia Informatica, from 2002
2. **Czibula Gabriela**, BRAIN, in 2012
3. **Czibula Istvan-Gergely**, Studia Informatica, in 2012
4. **Niculescu Virginia**, Studia Universitatis Babes-Bolyai Series Informatica, from 2002
5. **Cojocar Grigoreta Sofia**, REVISTA ROMANA DE INTERACTIUNE OM - CALCULATOR, in 2012
7. **Motogna Simona** - International Journal of Computers, Communications & Control, 2013
Members of Organizing and Scientific Committees of International and National Conferences

1. Motogna Simona-Claudia, 6th Balkan Conference in Informatics, Grecia, 2013, Program Committee Member
2. Motogna Simona-Claudia, KEPT 2013, Romania, 2013, Chair and Scientific Committee member
4. Niculescu Virginia, Engineering Object Oriented Parallel Software (EOOPS) - AINA 2013, Spania, 2013, PC member
5. Sacarea Christian, 6th International Conference on Security on Information Technology and Communications, Romania, 2013, member
6. Chiorean Ioan Danut, MODELS 2012, Austria, 2012, organizer and PC membru
7. Craciun Mihai-Florin-Gabriel, 14th ECOOP Workshop on Formal Techniques for Java-like Programs, Belarus, 2012, Program Committee Member
8. Craciun Mihai-Florin-Gabriel, The Sixth IEEE International Symposium on Theoretical Aspects of Software Engineering, China, 2012, Program Committee Member
10. Motogna Simona-Claudia, 5th Balkan Conference in Informatics, 2012, member
11. Pop Horia-Florin, MACS 9th, Ungaria, 2012, Member Steering Committee
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**Optimization theory**

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Domains of interest: Distributed system and networking

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Research Groups in Mathematics and Computer Science

The members of the Department are part of the research groups in Mathematics and Computer Science, as follows:

**Algebra:** Prof. PhD. Mărcuș Andrei, Assoc.Prof. PhD. Szántó Csaba, Asist. PhD. István Szöllosi (http://math.ubbcluj.ro/~aga_team/)

**Analysis and Optimization:** Prof. PhD. Kassay Gábor, Prof. PhD. Kolumbán József, Assoc.Prof. PhD. Finta Zoltán (http://www.cs.ubbcluj.ro/~grupanopt/)

**Geometric Analysis:** Prof. PhD. Varga Csaba, Lect. PhD. Mezei Ildiko

**Function Theory:** Prof. PhD. Bulboacă Teodor (http://math.ubbcluj.ro/~gctf/)

**Nonlinear Operators and Differential Equations:** Lect. PhD. András Szilárd (http://www.math.ubbcluj.ro/~nodeacj/soned.html)


**Simulation, Modeling, Control and Visualization:** Lect. PhD. Libál András, Assoc.Prof. PhD. Ferenc Szenkovits, Ruff Laura (http://www.cs.ubbcluj.ro/~smcv/)

**Data Analysis:** Assoc.Prof. PhD. Varga Viorica (http://www.cs.ubbcluj.ro/~da/)

Projects

National projects – coordinator/ director

1. **Csato Lehel**, *Metode neparametrice in instruirea automata a masinilor: aplicatii în robotica si analiza datelor*, proiect national , UEFISCDI, MODELARE SI TEORIA CALCULULUI, 2012 - 2013,
2. **Kassay Gabor**, *Structura si senzitivitatea solutiilor inegalitatilor variationale, problemelor de optimizare si echilibru in ipoteze de monotonie generalizata*, proiect national , UEFISCDI, ANALIZA FUNCTIONALA, TEORIA OPERATORILOR, ANALIZA CONVEXA, 2012 - 2013,
3. **Libal Jozsef-Andras**, *Studiul sistemelor coloidale de spin ice artificial*, proiect national , UEFISCDI, TEORIA STARII CONDENSATE, 2012 - 2013,
4. **Roth Agoston-Istvan**, *Probleme recente in modelarea geometrica asistata de calculator*, proiect national , UEFISCDI, ANALIZA NUMERICA SI TEORIA APROXIMARII, 2012 - 2013,

International projects

1. **Andras Szilard Karoly**, *PRIMAS - Promoting inquiry in Mathematics and science education across Europe*, proiect international , Comisia Europeana II, ECUATII DIFERENTIALE, INTEGRALE SI CU DERIVATE PARTIALE, 2012 - 2013,
2. **Soos Anna**, *DSL 2013 Programul Sectorial ERASMUS, Actiunea Programe Intensive*, proiect international , Comisia Europeana II, SISTEME SOFTWARE, 2012,

Members in projects:

3. **BOCSI Botond** - **Attila** - *Metode neparametrice in instruirea*


Projects

automata a masinilor: aplicatii în robotica si analiza datelor, UEFISCDI, MODELARE SI TEORIA CALCULULUI, 2011-2014


5. **Bodo Zalan-Peter** - Metode neparametrice in instruirea automata a masinilor: aplicatii in robotica si analiza datelor, UEFISCDI, MODELARE SI TEORIA CALCULULUI, 2011-2014


11. **Mezei Ildiko Ilona** - Simetrii in probleme eliptice: tehnici euclidiene si ne-euclidiene, UEFISCDI, ECUATII DIFERENTIALE, INTEGRALE SI CU DERIVATE PARTIALE, 2011-2013


13. **Soos Anna** - PRIMAS - Promoting inquiry in Mathematics and science education across Europe, Comisia Europeana II, ECUATII DIFERENTIALE, INTEGRALE SI CU DERIVATE PARTIALE, 2010-2013

14. **Suteu-Szollosi Stefan-Lucian** - Algebre grupale si algebre
Projects

*Ringel-Hall, CNCSIS II, ALGEBRA, LOGICA SI TEORIA NUMERELO," 2010-2013*


18. **Varga Csaba-Gyorgy** - *Sisteme Neliniare in Analiza Matematica si Aplicatii, CNCSIS II, ECUATII DIFERENTIALE, INTEGRALE SI CU DERIVATE PARTIALE, 2010-2013*

19. **Varga Viorica** - *Sisteme Neliniare in Analiza Matematica si Aplicatii, CNCSIS II, ECUATII DIFERENTIALE, INTEGRALE SI CU DERIVATE PARTIALE, 2010-2013*
Representations in professional organizations

1. Sandor Jozsef, in Corporatia Doctorilor Academiei Ungare, from 2000 – member
2. Sandor Jozsef, in Romanian mathematical society, 2012, member

5. Sandor Jozsef, in Farkas Gyula Association for mathematics and computer science, from 2012, member
6. Sandor Jozsef, in Rado Ferenc Mathematical Society, from 2012, member
7. Sandor Jozsef, in Research Group Mathematical Inequalities Applications, from 2012, member
8. Sandor Jozsef, in American Mathematical Society, from 2012, member
9. Sandor Jozsef, in European mathematical Society, from 2012, member
10. Sandor Jozsef, in Janos Bolyai Mathematical Society, from 2012, member
11. Soos Anna, in Fundatia Universitara Maghiara din Cluj, from 2012, president
12. Soos Anna, in Asociatia Farkas Gyula pentru Matematica si Informatica, from 2012, vicepresident
13. Szenkovits Ferenc, in International Astronomical Union, from 2012, member
15. Szenkovits Ferenc, in Societatea de Stiinte Matematice din Romania, from 2012, member
16. Szenkovits Ferenc, in Consiliul National Roman de Astronomie, from 2012, member
17. Szenkovits Ferenc, in Hungarian Astronomical Society, from 2012, member
18. Szenkovits Ferenc, in Asociatia Farkas Gyula pentru matematica si informatics, from 2012, president
Representations in professional organizations

International Editorial Boards:

1. **Bulboaca Teodor**, International Journal of Mathematics and Mathematical Sciences, from 2006, member
2. **Gasko Noemi**, Memmectic Computing, from 2011, reviewer
4. **Kassay Gabor**, Studia Universitatis Babeş-Bolyai, from 2011, member
5. **Sandor Jozsef**, Journal of Inequalities in Pure applied mathematics, from 2001, Foundation Editor
7. **Sandor Jozsef**, Advanced Studies in Contemporary mathematics, from 2003, Associate Editor
9. **Sandor Jozsef**, Notes in Number Theory and Discrete mathematics, from 1993, Associate editor
10. **Sandor Jozsef**, Bulletin of mathematical analysis and applications, from 2007, Associate editor
11. **Sandor Jozsef**, ISST Journal of Mathematics and Computer Sciences, from 2009, Associate Editor
12. **Sandor Jozsef**, Scientia Magna, from 2009, Associate Editor
14. **Sandor Jozsef**, International Journal of Contemporary Mathematics, from 2011, Associate Editor
15. **Sandor Jozsef**, MathProblems, from 2010, Associate Editor
16. **Sandor Jozsef**, Octogon Mathematical Magazine, from 1993, Associate Editor
17. **Sandor Jozsef**, IMVI Open Bulletin of Mathematics, from 2010, Associate Editor
Representations in professional organizations

18. **Sandor Jozsef**, Konuralp Journal of Mathematics, from 2012, Associate Editor
19. **Sandor Jozsef**, IMVI Open Journal of Mathematics, from 2010, Associate Editor
20. **Sandor Jozsef**, Advances in Inequalities and Applications, from 2012, Associate Editor
21. **Sandor Jozsef**, Conference Papers in Mathematics, from 2012, Associate Editor
22. **Sandor Jozsef**, MATHEMATICAL INEQUALITIES & APPLICATIONS, from 1999, Associate Editor
23. **Sandor Jozsef**, APPLICABLE ANALYSIS AND DISCRETE MATHEMATICS, from 2004, Associate Editor
24. **Szenkovits Ferenc**, Studia Mathematica, from 2000, member
25. **Varga Csaba-Gyorgy**, ABSTRACT AND APPLIED ANALYSIS, from 2012, Editor

National Editorial Board

1. **Sandor Jozsef**, Matlap, from 2000, Associate Editor
2. **Sandor Jozsef**, Erdelyi Matematikai Lapok, from 2003, Associate Editor
3. **Soos Anna**, STUDIA UNIVERSITATIS BABES-BOLYAI. MATHEMATICA, from 2009, member
4. **Szenkovits Ferenc**, Matlap, from 1980, member
5. **Szenkovits Ferenc**, Firka, from 2000, member
6. **Varga Csaba-Gyorgy**, STUDIA UNIVERSITATIS BABES-BOLYAI.MATHEMATICA, from 2009, Editor
7. **Varga Csaba-Gyorgy**, MATHEMATICA, from 2004, member

Reviewer for international and national journals:

Representations in professional organizations

15. Csato Lehel, SOFT COMPUTING, 2012
18. Darvay Zsolt, NUMERICAL FUNCTIONAL ANALYSIS AND OPTIMIZATION, 2012
20. Darvay Zsolt, NUMERICAL ALGORITHMS, 2013
Representations in professional organizations

23. **Szanto Csaba-Lehel**, COMMUNICATIONS IN ALGEBRA, 2012
25. **Szenkovits Ferenc**, CELESTIAL MECHANICS & DYNAMICAL ASTRONOMY, 2013

Member in organizing and scientific committees of international conferences:

1. **Varga Csaba-Gyorgy**, Advances in Differential Equations: symmetrizations and related topics., Romania, 2013, member
3. **Robu Judit**, 9th Joint Conference on Mathematics and Computer Science (9th MaCS), Ungaria, 2012, member
4. **Soos Anna**, 9th Joint Conference on Mathematics and Computer Science, Ungaria, 2012, member
5. **Szenkovits Ferenc**, DYNAMICAL AND PHYSICAL PROCESSES IN CELESTIAL BODIES – AN ASTROPHYSICAL INSIGHT, Romania, 2012, co-organizer