



“Vasile Alecsandri” University of Bacău

Faculty of Sciences

Department of Mathematics, Informatics  
and Education Sciences



The 9<sup>th</sup> Edition of

**“Gheorghe Vrănceanu” Conference on  
Mathematics and Informatics**

**December 6<sup>th</sup>, 2016**



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## Programme

10 <sup>00</sup> – 11 <sup>00</sup>	<b>Opening ceremony</b>	Room D206
11 <sup>00</sup> – 12 <sup>00</sup>	<b>Plenary talk</b> <b>Professor Teodor Gabriel Crainic-</b> <b>Models and methods for City Logistic</b> <b>Planning. Real-world implementation</b>	Vasile Alecsandri Aula
14 <sup>00</sup> – 16 <sup>15</sup> 16 <sup>15</sup> – 18 <sup>00</sup>	<b>Parallel sessions</b> <b>Round table:</b> The interdisciplinary approach to teaching Mathematics and Informatics	Rooms D216, D206 Room D206

**Location of the Conference:** 600115 Bacău, Calea Mărășești 157, D Building, 2<sup>nd</sup> Floor

## Scientific committee

- **Octavian AGRATINI**, "Babeş-Bolyai" University Cluj-Napoca
- **Mihai ANASTASIEI**, "Al.I.Cuza" University Iaşi
- **Mihaela BARONI**, "Dunărea de Jos" University of Galaţi
- **Marian-Alexandru BARONI**, "Dunărea de Jos" University of Galaţi
- **Constantin BĂCUȚĂ**, Dept. of Mathematical Sciences, University of Delaware, USA
- **Cristina BĂCUȚĂ**, Dept. of Mathematical Sciences, University of Delaware, USA
- **Eveline BAESU**, Dept. of Engineering Mechanics University of Nebraska Lincoln, USA
- **Eleonor CIUREA**, Dept. of Computer Science, "Transilvania" University
- **Gloria-Cerasela CRIŞAN**, Vasile Alecsandri" University of Bacău
- **Constantin CORDUNEANU**, Romanian Academy, The University of Texas, Arlington
- **Anca CROITORU**, "Al.I.Cuza" University Iaşi
- **Ioan DZIȚAC**, "Agora" University, Oradea
- **Barna IANTOVICS**, "Petru Maior" University Târgu Mureş
- **Vlad MANOLE**, Dept. of Economics, Rutgers University, Newark, USA
- **Eugen MÂNDRESCU**, Dept. of Computer Science, Holon Institute of Technology, Israel
- **Radu MIRON**, Romanian Academy
- **Marcelina MOCANU**, "Vasile Alecsandri" University of Bacău
- **Elena NECHITA**, "Vasile Alecsandri" University of Bacău
- **Valeriu POPA**, "Vasile Alecsandri" University of Bacău
- **Vasile POSTOLICĂ**, "Vasile Alecsandri" University of Bacău
- **Corina ROTAR**, "1 Decembrie 1918" University of Alba-Iulia
- **Emil SAUCAN**, Dept. of Mathematics, Technion-Israel Institute of Technology, Israel
- **Mihai TALMACIU**, "Vasile Alecsandri" University of Bacău
- **Dumitru TODOROI**, Academy of Economic Studies of Moldova
- **Ioan TOMESCU**, Romanian Academy, Romania

## Organizing committee

- **Gloria-Cerasela CRIŞAN**, "Vasile Alecsandri" University of Bacău
- **Marcelina MOCANU**, "Vasile Alecsandri" University of Bacău
- **Elena NECHITA**, "Vasile Alecsandri" University of Bacău
- **Carmen-Violeta POPESCU**, "Vasile Alecsandri" University of Bacău
- **Mihai TALMACIU**, "Vasile Alecsandri" University of Bacău

## Parallel sessions

### Section: MATHEMATICS

- 14<sup>00</sup> – 14<sup>15</sup> **Vasile POSTOLICĂ** "Vasile Alecsandri" University of Bacău  
*Selected open problems in vectorial optimization*
- 14<sup>15</sup> – 14<sup>30</sup> **Valeriu POPA** "Vasile Alecsandri" University of Bacău  
**Alina-Mihaela PATRICIU** "Dunărea de Jos" University of Galați  
*Strict fixed points for multifunctions satisfying a generalized implicit Gregus-type condition in symmetric spaces and applications*
- 14<sup>30</sup> – 14<sup>45</sup> **Valeriu POPA** "Vasile Alecsandri" University of Bacău  
**Takashi NOIRI** Yatsushiro College of Technology, Japan  
*Some generalizations of ultra-continuous multifunctions*
- 14<sup>45</sup> – 15<sup>00</sup> **Marcelina MOCANU** "Vasile Alecsandri" University of Bacău  
*A characterization of Orlicz-Poincaré inequality on metric measure spaces*
- 15<sup>00</sup> – 15<sup>15</sup> **Manuela GÎRȚU** "Vasile Alecsandri" University of Bacău  
*Finslerian structures on a big tangent bundle*
- 15<sup>15</sup> – 15<sup>30</sup> **Valer NIMINEȚ** "Vasile Alecsandri" University of Bacău  
*The tangent bundle in Finsler geometry*
- 15<sup>30</sup> – 15<sup>45</sup> **Carmen Violeta MURARU (POPESCU)** "Vasile Alecsandri" University of Bacău  
*On certain approximation properties of the bivariate  $Q$ -Schurer-Stancu operators*
- 15<sup>45</sup> – 16<sup>00</sup> **Adriana-Voichița RADU** "Babeș-Bolyai" University of Cluj-Napoca  
*Note on the iterates of  $q$  and  $(p,q)$ -Bernstein operators*
- 16<sup>00</sup> – 16<sup>15</sup> **Ana Maria ACU** "Lucian Blaga" University of Sibiu  
*New estimates for the differences of positive linear operators*

## Section: INFORMATICS

- 14<sup>00</sup> – 14<sup>15</sup>    **Mihai TALMACIU**    "Vasile Alecsandri" University of Bacău  
*On bicliques, biclique partitions and related classes of cographs*
- 14<sup>15</sup> – 14<sup>30</sup>    **Mihai TALMACIU**    "Vasile Alecsandri" University of Bacău  
*Recognition algorithm for  $P_4$ -tidy Graphs*
- 14<sup>30</sup> – 14<sup>45</sup>    **Gloria-Cerasela CRIȘAN**    "Vasile Alecsandri" University of Bacău  
*Large area transportation problems: new challenges and solutions*
- 14<sup>45</sup> – 15<sup>00</sup>    **Elena NECHITA**    "Vasile Alecsandri" University of Bacău  
*Making curriculum in Informatics meaningful. Introducing Environmental Informatics through problems and projects*
- 15<sup>00</sup> – 15<sup>15</sup>    **Dan POPA**    "Vasile Alecsandri" University of Bacău  
*Virus detection by parsing*
- 15<sup>15</sup> – 15<sup>30</sup>    **Iulian-Marius FURDU**    "Vasile Alecsandri" University of Bacău  
*Reduced Ordered Binary Decision Diagrams. Optimization techniques*
- 15<sup>30</sup> – 15<sup>45</sup>    **COSMIN-ION TOMOZEI**    "Vasile Alecsandri" University of Bacău  
*Reengineering SharePoint of Applications for University Management and Decisions Support*