

- **ROMANIAN SOCIETY OF APPLIED AND INDUSTRIAL MATHEMATICS**
- **“Ion Ionescu de la Brad” UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE OF IAȘI**
- **ACADEMY OF ROMANIAN SCIENTISTS**
- **“Al. I. Cuza” UNIVERSITY OF IAȘI, FACULTY OF MATHEMATICS**
- **”Gh. Asachi” TECHNICAL UNIVERSITY OF IAȘI**
- **ROMANIAN MATHEMATICAL SOCIETY - IAȘI branch**

cordially invites you to

THE 19th CONFERENCE ON APPLIED AND INDUSTRIAL MATHEMATICS

CAIM 2011

Iași, Romania, September 22-25, 2011

FIRST ANNOUNCEMENT

The Romanian Society of Applied and Industrial Mathematics (ROMAI), “Ion Ionescu de la Brad” University of Agricultural Sciences and Veterinary Medicine of Iași (UASVM), The Academy of Romanian Scientists (ARS), the Faculty of Mathematics of the "Al. I. Cuza" University of Iași (UAIC), and the Romanian Mathematical Society – Iași branch announce the organization of the 19th Conference on Applied and Industrial Mathematics - CAIM 2011. The Conference will be held in Iași, between the 22 and the 25 of September, 2011.

ROMAI was founded in 1992. It is a non-profit scientific association whose members are mathematicians, physicists, engineers, chemists, biologists, economists, and other scientists from Romania, Republic of Moldova, and some other countries. ROMAI encourages and promotes studies on applied mathematics and organizes annually, since 1993, the Conference on Applied and Industrial Mathematics (CAIM).

Iași is the most important historical, economic, and cultural centre in Northeast Romania. In this area, the archaeological researches have discovered traces of the ancient Culture of Cucuteni, flourishing about 5000 years ago. Iași City is documentary certified from the 14th century during the reign of Alexandru cel Bun. The name of Iași City is bound up with the so-called "golden period" of the Romanian culture. At the beginning of the 19th century, here was established the first high education school in Romanian.

In 1860 Al. I. Cuza, the first ruler of the United Principalities of Moldavia and Walachia, founded in Iași the first university in Romania, later named “Al. I. Cuza” University.

In 1912, the Agricultural Science Department was set up within the Faculty of Sciences of “Al. I. Cuza” University.

Many Romanian personalities lived, studied, worked and created in Iasi. The city is well known as a major cultural city.

Objectives

CAIM 2011 provides a forum for the review of the recent trends in theoretical, numerical, experimental and industrial applications of mathematics, in computer sciences and in education activities in mathematics. It offers to the researchers the opportunity to share new research advances and ideas in different areas of Mathematics with a special stress on their applicability. Also, it is our intention to create a framework for discussions on the interface between Mathematics and Industry.

Graduate students and postdocs interested in these rapidly developing fields are warmly welcome.

This edition is especially dedicated to researches in **quadratic dynamical systems and their applications**.

Conference Sections

1. Dynamical systems, jets theory and their applications; quadratic dynamical systems
2. Algebra and logic
3. Topology and differential geometry
4. Functional analysis and differential equations
5. Analytical and numerical methods in mechanics
6. Mathematics in Physics, Chemistry and Industry
7. Mathematics in Biology and Environmental Sciences
8. Theoretical computer sciences
9. Education

Scientific Committee

Nuri AKSEL (Bayreuth), Catherine BUNDLE (Basel), Constantin BACUTA (Delaware, U.S.A.), Martin BOHNER (Missouri, USA), Dumitru BOTNARU (Chisinau), Tassos BOUNTIS (Patras), Mitrofan CIOBANU (Chisinau), Piergiulio CORSINI (Italy), Behzad DJAFARI-ROUHANI (Texas, USA), Angelo FAVINI (Bologna), Margarida FERREIRA (Porto), Angel GARRIDO (Spain), Vladimir GERT (Russian Federation), Demeter KRUPKA (Czech Republic), Olga KRUPKOVA (Czech Republic), Mario LEFEBVRE (Canada), Boris LOGINOV (Ulyanovsk), Bogdan KAZMIERCZAK (Poland), Nikos MASTORAKIS (Athens), Antonio MATURO (Italy), Nenad MLADENOVICI (Birmingham), Gheorghe MOROSANU (Budapest), Ingo MULLER (Berlin), Lidia PALESE (Bari), Zbigniew PERADZYNSKI (Warsaw), Kazimierz PIECHOR (Warsaw), Maria PINHO (Porto), Mihail POPA (Chisinau), Maida RAHULA (Estonia), Kumbakonam RAJAGOPAL (Texas), Mefodie RATA (Chisinau), Liliana RESTUCCIA (Messina), Ruggero Maria SANTILLI (U.S.A.), Dana SCHLOMIUK (Canada), Kiyoyuki TCHIZAWA (Tokyo), Vladilen TRENIGIN (Moscow), Vladimir VELIOV (Vienna, Austria) Nicolae VULPE (Chisinau).

Mihai ANASTASIEI (Iași), Vladimir BALAN (București), Șerban BASARAB (București), Wladimir-Georges BOSKOFF (Constanța), Vasile BRÂNZĂNESCU (București), Ilie BURDUJAN (Iași), Adrian CARABINEANU (București), Ovidiu CÂRJĂ (Iași), Sanda CLEJA-ȚIGOIU (București), Adrian CONSTANTINESCU (București), Ion CRĂCIUN (Iași), Narcisa APREUTESEI DUMITRIU (Iași), Gabriel DIMITRIU (Iași), Ioan DZITAC (Oradea), Constantin FETECĂU (Iași), Anca-Veronica ION (București), Ioana MOISIL (Sibiu), Costică MOROȘANU (Iași), Virgil OBĂDEANU (Timișoara), Titus PETRILA (Cluj-Napoca), Emilia PETRIȘOR (Timișoara), Constantin POPA (Constanța), Vasile POSTOLICĂ (Bacău), Nicolae SUCIU (Cluj-Napoca), Mirela ȘTEFANESCU (Constanța), Dan TIBA (București), Mihai TURINICI (Iași), Cristian VOICA (București)

Organizing Committee

Valeriu V. COTEA
Ilie BURDUJAN
Ion CRĂCIUN
Costică MOROȘANU
Constantin POPOVICI

Location

CAIM 2011 will take place at “Ion Ionescu de la Brad” University, Mihail Sadoveanu Lane, 3, 700490, Iași, Romania

Tel. 0040 232 407367 or 0040 232 407407,
Fax: 0040 232 260650

The best access to the Conference location is by taxi from the train station or from the airport.

Accommodation

The participants at the conference are kindly asked to contact one of the following hotels situated in the proximity of the University.

- Astoria Hotel: <http://www.hotelastoria.ro/>;e-mail: reservation@hotelastoria.ro
- Unirea Hotel: <http://www.hotelunirea.ro/>;e-mail: rezervari@hotelunirea.ro
- Select Hotel: <http://www.selectgrup.ro/>;e-mail: officeselect@selectgrup.ro
- Traian Hotel: <http://www.grandhoteltraian.ro/>;e-mail: reservation@grandhoteltraian.ro
- Moldova Hotel: <http://www.hotelmoldovaiasi.ro/>;e-mail: moldova.iasi@unita-turism.ro

A limited number of rooms will be available at the Gaudeamus Hotel of the university, if interested please contact the organizing committee.

Social Program

Official dinner. Excursion.

The cost of the excursion will be specified in the Second Announcement.

Travel

You can reach Iași:

- By plane: the nearest airport is Iași International Airport, located about 15 km from the hotels and university campus. The airport is operated by:
 1. TAROM, from Bucharest; please consult timetable of TAROM at <http://www.tarom.ro>.
 2. CARPATAIR, via Timișoara, from Vienna, Roma, Torino, Munchen, Stuttgart (and others); please consult <http://www.carpatair.com>
 3. AUSTRIAN AIRLINES, via Vienna; please consult <http://www.aua.com>
 4. MALEV, via Budapest; please consult <http://www.malev.com>

From the Iași Airport, downtown hotels and the conference location can be reached within 30 minutes by car. A taxi ride costs around 30 RON (7 €).

- By train: please consult <http://www.infofer.ro/>.
- By car: plan your trip using [ViaMichelin](#).

Registration

Registration deadline: **Aug. 15, 2010**

The registration can be made on line at the web page of “Ion Ionescu de la Brad” University, www.uaiasi.ro/caim2011.

Conference Fees

Early registration fee (until Sep. 01, 2011)

Romanian participants 220 RON, foreign participants 180 €, foreign participants from former socialist countries 50 €;

Regular registration fee (from Sep. 01, 2011)

Romanian participants 250 RON, foreign participants 200 €, foreign participants from former socialist countries 60 €.

For paying the Participation Fee by bank transfer, please use the following accounts

For the payment in Ron, account: RO41 BTRL 0240 1201 B542 66XX,
BT – SUCURSALA Iasi, Str. Ghica Voda nr. 3A, 1024 Iasi Romania
holder: Burdujan Ilie
Mentionati : CAIM2011 – taxa participare

For the payment in Euro, account: RO16 BTRL 0240 4201 B542 66XX,
BT – SUCURSALA Iasi, Str. Ghica Voda nr. 3A, 1024 Iasi Romania
SWIFT CODE (BIC CODE): BTRLRO 22
holder: Burdujan Ilie
Please Mention: CAIM2011 – participation fee

We strongly encourage the participants to pay the Participation Fee by bank transfer before September 01. However, if this is, for any reason, not possible, the Fee may be paid at the Registration Desk. Actually, in the case when the bank commission is consistent it probably is a good idea to pay the fee straight at the Conference Registration Desk.

Important Dates

Registration deadline: 15.08.2011

Notification of acceptance (for presentation): 01.09.2011

Deadline to submit papers: 10.09.2011

Conference period: 22-25 September 2011

ABSTRACTS. The abstracts must be written in English using Microsoft Office Word for all sections, in accordance with the Registration Form.

The abstracts for Sections 1-8 will be written by using, the LATEX 2e template below.

The abstracts for Section 9 will be written by using Microsoft Word.

CAIM Abstracts Template (for sections 1-8)

```
\documentclass[10pt,a4paper]{article}
\usepackage{amsfonts}
\usepackage{amsbsy}
\usepackage{amssymb}
\usepackage{amsmath}
\usepackage{amsthm}
\newcommand{\titleart}[1]{\bigskip \begin{center}
\large \textbf{#1}\end{center}}
\vspace{-6mm}
\newcommand{\autorart}[1]{\begin{center} \large
\textsf{#1}\end{center} \vspace{-6mm} }
\newcommand{\coord}[1]{\begin{center} \small
\textit{#1}\end{center} \vspace{-6mm} }
\newcommand{\mail}[1]{\begin{center} \small
\textit{#1}\end{center} \normalsize}
\begin{document}
\titleart{Title of abstract}
\autorart{Author1 \index{Author1}, Author2
\index{Author2},...}
\coord{Affiliation, Country}
\mail{e-mail}
\medskip
Text of the abstract.....
\medskip
{\small {\bf References}
\noindent
1. E. Hopf, {\it A mathematical example displaying
features of turbulence},
Comm. Appl. Math. {\bf 1}(1948), 303-322.
\noindent
2. M. Golubitsky, D.G. Schaeffer, {\it Singularities
and groups in bifurcation theory}, vol. I,
```

```
Springer-Verlag, New York, 1985.  
}  
\end{document}
```

PAPERS. Instructions for Authors

For Sections 1-8, the papers must be written in LATEX 2e. The authors are kindly asked to submit also the paper in pdf format. Please use as model: [template.tex](#) and [gridFVM.eps](#).

For Section 9, the papers must be written by using Microsoft Word, in Romanian or in English.

The Scientific Committee will select the works which may be communicated and published. The Organizing Committee has the right to reject any work which exhibits an inappropriate scientific or linguistic level.

The authors should obey the standard copyright regulations and are responsible for the scientific and linguistic accuracy of the text.

For detailed information please check the conference website www.romai.ro

The works of the conference will be included after a refereeing selection in the journals:

- ROMAI J. (please check www.romai.ro),
- Annals of AOSR, *Mathematics and Its Applications* (www.mathematics-and-its-applications.com)
- a Proceedings volume edited by the Romanian Society of Applied and Industrial Mathematics (ROMAI),
- ROMAI Educational Journal (www.romai.ro).

The papers for Sections 1-8 will be sent to Anca-Veronica ION at romai.journal@yahoo.com

The papers for Section 9 will be sent to Cristian Voica at voica@gt.math.unibuc.ro

Contact

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e-mail: caim2011@uaiasi.ro
<http://www.uaiasi.ro/CAIM2011>

Weather

In September (autumn in Romania), the temperature is about 17-20 Celsius deg and the days are usually sunny.

CAIM 2011 Preliminary Program

September 22, 2011

14,00 – 23,00 – Registration at “Ion Ionescu de la Brad” University, Iasi

September 23, 2011

7,00 – 9,00 – Registration at “Ion Ionescu de la Brad” University, Iasi

09,00 – 09,45 – Opening Ceremony

09,45 – 10,00 – Coffee Break

10,00 – 13,00 – Plenary Lecture

13,00 – 14,00 – Lunch

14,00 – 16,00 – Sessions on Sections

16,00 – 16,15 – Coffee Break

16,15 – 19,30 – Sessions on Sections

September 24, 2011

08,00 – 09,00 – Breakfast

09,00 – 11,00 – Sessions on Sections

11,00 – 11,20 – Coffee Break

11,20 – 13,00 – Sessions on Sections

13,30 – 15,00 – Lunch

15,00 – 17,00 – Sessions on Sections

17,00 – 17,15 – Coffee Break

17,15 – 18,15 – Sessions on Sections

18,15 – 18,30 – Closing ceremony

18,30 – 19,30 – ROMAI – General Assembly

20,00 – 22,30 – Official Dinner

September 25, 2011

– Excursion

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cmoro@uaic.ro