

- **ACADEMY OF ROMANIAN SCIENTISTS**
- **ROMANIAN SOCIETY OF APPLIED AND INDUSTRIAL MATHEMATICS**
- **“Al. I. Cuza” UNIVERSITY OF IAȘI, FACULTY OF MATHEMATICS**
- **“Octav Mayer” MATHEMATICAL INSTITUTE OF THE ROMANIAN ACADEMY**
- **ROMANIAN MATHEMATICAL SOCIETY - IAȘI branch**

THE 18th CONFERENCE ON APPLIED AND INDUSTRIAL MATHEMATICS **CAIM 2010**

Iași, Romania, October 14-17, 2010

FIRST ANNOUNCEMENT

The Academy of Romanian Scientists (AOS), the Romanian Society of Applied and Industrial Mathematics (ROMAI), the Faculty of Mathematics of the "Al. I. Cuza" University of Iasi (UAIC), the "Octav Mayer" Mathematical Institute of the Romanian Academy, and the Romanian Mathematical Society – Iasi branch announce the organization of the 18th Conference on Applied and Industrial Mathematics - CAIM 2010. The Conference will be held in Iasi, between the 14 and the 17 of October, 2010.

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 studies on applied mathematics and organizes annually, since 1993, the Conference on Applied and Industrial Mathematics (CAIM).

Universities in Iasi: the "Al.I. Cuza" University - <http://mail.uaic.ro>, (the oldest university in Romania, founded in 1860), the "Gh. Asachi" Technical University, the "Grigore T. Popa" University of Medicine and Pharmacy, the University of Agricultural Sciences and Veterinary Medicine "Ion Ionescu de la Brad", the Academy of Art, the Catholic Theological Institute.

Iasi is the most important historical, economic, and cultural center in northeast Romania. In this area, the archaeological researches have discovered traces of the ancient Culture of Cucuteni, flourishing about 5000 years ago. Iasi City is documentary certified from the 14th century during the reign of Alexandru cel Bun. The name of Iasi 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 Wallachia, founded in Iasi the first university in Romania. Many Romanian personalities lived, studied, worked and created in Iasi. The city is well known as a major cultural city.

CAIM 2010 Objectives

CAIM 2010 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.

Conference Sections

1. Algebra, logic, topology
2. Dynamical systems
3. Functional analysis and differential equations
4. Analytical and numerical methods in mechanics
5. Mathematics in Physics, Chemistry and Industry
6. Mathematics in Biology
7. Theoretical computer sciences
8. Education

Scientific Committee

Nuri AKSEL (Bayreuth)	Nenad MLADENOVICI (Birmingham)
Catherine BUNDLE (Basel)	Ioana MOISIL (Sibiu)
Viorel BARBU (Iasi)	Gheorghe MOROSANU (Budapest)
Serban BASARAB (Bucharest)	Ingo MULLER (Berlin)
Dumitru BOTNARU (Chisinau)	Virgil OBADEANU (Timisoara)
Tassos BOUNTIS (Patras)	Lidia PALESE (Bari)
Wladimir-Georges BOSKOFF (Constanta)	Zbigniew PERADZYNSKI (Warsaw)
Vasile BRANZANESCU (Bucharest)	Titus PETRILA (Cluj-Napoca)
Ilie BURDUJAN (Iasi)	Emilia PETRISOR (Timisoara)
Adrian CARABINEANU (Bucharest)	Kazimierz PIECHOR (Warsaw)
Ovidiu CARJA (Iasi)	Maria PINHO (Porto)
Mitrofan CIOBANU (Tiraspol)	Constantin Popa (Constantza)
Sanda CLEJA-TIGOIU (Bucharest)	Mihail POPA (Chisinau)
Adrian CONSTANTINESCU (Bucharest)	Kumbakonam RAJAGOPAL (Texas)
Ion CRACIUN (Iasi)	Mefodie RATA (Chisinau)
Ioan DZITAC (Oradea)	Liliana RESTUCCIA (Messina)
Angelo FAVINI (Bologna)	Valeriu SAVA (Iasi)
Margarida FERREIRA (Porto)	Panayotis SIAFARIKAS (Patras)
Constantin FETEAU (Iasi)	Mirela STEFANESCU (Constantza)
Adelina GEORGESCU (Bucharest)	Nicolae SUCIU (Cluj-Napoca)
Anca-Veronica ION (Bucharest)	Kiyoyuki TCHIZAWA (Tokyo)
Boris LOGINOV (Ulyanovsk)	Vladilen TRENIGIN (Moscow)
Gheorghe MARIN (Bucharest)	Harry VERECKEN (Juelich)
Nikos MASTORAKIS (Sofia)	Cristian VOICA (Bucharest)

Local Organizing Committee

Ilie BURDUJAN
Ovidiu CARJA
Ion CRACIUN
Costica MOROSANU

Secretariate

Ana Maria BEDA
Carmen SAVIN

CAIM 2010 Location

CAIM 2010 will be held at “Al. I. Cuza” University, Bd. Carol I, 11, Cod. 700506, Iasi, Romania. Tel: 0232/20.10.60, Fax: 0232/20.11.60. The best access to the conference location is by taxi, from the train station or from the airport.

Accommodation

Rooms in **, ***, **** hotels will be available. You can find more details about this on the web page of “Al.I Cuza” University, <http://mail.uaic.ro>

Rooms in the school hostel will be available.

Social Program

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

Participation Fees

1. Reduced Participation Fee – if paid by bank before September 25, 2010

- 190 RON conference fee for the Romanian participants. It includes the conference materials, the abstracts, the coffee breaks and the official dinner.
- 180 EUR conference fee for the foreign participants. It includes the conference materials, the abstracts, the coffee breaks, the official dinner and accommodation up to 3 nights in ** hotel. Without accommodation, the reduced participation fee is 70 EUR.
- 30 EUR conference fee for participants from former socialist countries. It includes the conference materials, the abstracts, the coffee breaks, and the official dinner.

2. After September 25, 2010

- 220 RON conference fee for the Romanian participants. It includes the conference materials, the abstracts, the coffee breaks and the official dinner.
- 200 EUR conference fee for the foreign participants. It includes the conference materials, the abstracts, the coffee breaks, the official dinner and accommodation up to 3 nights in ** hotel. Without accommodation, the participation fee is 80 EUR.

- 50 EUR conference fee for participants from former socialist countries.
It includes the conference materials, the abstracts, the coffee breaks, and the official dinner.

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

For the payment in Ron, account: SV00031164160,
BRD, Suc. TRIUMF BUCURESTI,
Owner: ROMAI
IBAN RO23BRDE445SV00031164160

For the payment in Euro, account: SV10137674160,
BRD, Suc. TRIUMF BUCURESTI,
Owner: ROMAI
IBAN RO19BRDE445SV10137674160 .

We strongly encourage the participants to pay the Participation Fee by bank transfer before September 25. However, if this is, for any reason, not possible, the Fee may be paid at The Registration Desk.

Important dates

Registration Deadline: 31.08.2010
Notification of acceptance: 15.09.2010
Early Payment Deadline: 25.09.2010
Deadline to Submit Papers: 01.10.2010

Conference period: **14-17 October** 2010

The registration can be made on line at the web page of “Al.I Cuza” University,
www.math.uaic.ro/~caim2010.

ABSTRACTS.

All abstracts must be written in English.

The abstracts for Sections 1-7 will be written by using, the LATEX 2e template below.
The abstracts for Section 8 will be written by using Microsoft Word.

CAIM Abstracts Template (for sections 1-7)

```
\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} }
```

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\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.

The papers from Sections 1-7 will be published, after a reviewing process, in ROMAI Journal, (a B⁺ in the CNCSIS classification journal, and indexed by ZBM), web page <http://rj.romai.ro> .

These papers must be written in English, by using the Latex 2e template given at http://rj.romai.ro/index.php?option=com_content&view=article&id=77&Itemid=14

The figures, if any, must be in eps format. The authors are kindly asked to submit also the paper in pdf format.

Some selected papers may be published in The Annals of AOSR, *Mathematics and Its Applications*, web page <http://www.mathematics-and-its-applications.com/>

All the papers from Sections 1-7 will be sent to Dr. Anca-Veronica ION at: averionro@yahoo.com.

The papers for Section 8 must be written, in Romanian, by using Microsoft Word and will be sent to Professor Cristian Voica, at voica@gta.math.unibuc.ro.

Weather.

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

CAIM 2010 Program

October 14

14,00 – 23,00 – Registration at “Al. I. Cuza” University, Iasi

October 15

7,00 – 9,00 – Registration at “Al. I. Cuza” 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

October 16

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 – 19,00 – ROMAI meeting

20,00 – 22,30 – Official Dinner

October 17 – Excursion

Contact Addresses: burdujan_ilie@yahoo.com, ion_craciun2008@yahoo.com,
cmoro@uaic.ro