

- **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**
- **ROMANIAN SOCIETY OF RHEOLOGY**
- **UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE “Ion Ionescu de la Brad” IAȘI**
- **NATIONAL INSTITUTE OF INVENTICS - IAȘI**

THE 18th CONFERENCE ON
APPLIED AND INDUSTRIAL MATHEMATICS
CAIM 2010 - October 14-17, 2010, Iași, Romania,

Dedicated to memory of *Adelina GEORGESCU*

SECOND 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 Iași (UAIC), the "Octav Mayer" Mathematical Institute of the Romanian Academy, the Romanian Mathematical Society – Iași branch, Romanian Society of Rheology, University of Agricultural Sciences and Veterinary Medicine “Ion Ionescu de la Brad” Iași, and National Institute of Inventics announce the organization of **the 18th International Conference on Applied and Industrial Mathematics - CAIM 2010**, that will take place from October 14 to October 17, 2010 at "Al. I. Cuza" University of Iași (UAIC), Romania.

Conference contact: e-mail addresses and telephone numbers:

- for accomodation and financial details:

Prof. Dr. **Ilie Burdujan**, e-mail: burdujan_ilie@yahoo.com; 004.0755.099.063

- for registration, programme and publication issues:

Assoc. prof. Dr. **Costică Moroșanu**, e-mail: cmoro@uaic.ro; 004.0740.795.505

Scientific Committee

Sergiu AIZICOVICI (Athens, Ohio)
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Conference main topics:

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

Invited Speakers

Viorel BARBU (Iași, Romania)
Mitrofan CIOBAN (Chișinău, Rep. Moldova)
Ioan CRUDU (Galați, Romania)
Angelo FAVINI (Bologna, Italy)
Angel GARRIDO (Madrid, Spain)
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Nicolae PAVEL (Athens, USA)
Boris PLAHTEANU (Iași, Romania)
Ionut PORUMBEL (Bucharest, Romania)
Dana SCHLOMIUK (Montreal, Canada)

Important dates

Registration Deadline: 25.09.2010
Notification of acceptance: 30.09.2010
Early Payment Deadline: 25.09.2010
Deadline to Submit Papers (in extension, 8-10 pages): 10.10.2010

Authors are requested to send an abstract (1 page) before September 25, 2010 to e-mail: www.math.uaic.ro/~caim2010. Instructions and a style file for the preparation of the abstracts are available below.

Preliminary schedule:

- **October 14** - arrival day
- **October 15** - first conference day (a.m. – registration, festive opening and plenary lectures)
- **October 16** - last conference day; the General Assembly of the ROMAI members
- **October 17** – Excursion to Agapia – Secu; departure day.

For other details, please check the Conference web-page www.math.uaic.ro/~caim2010

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.

Presentation/publication of papers

All papers will be peer-reviewed.

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 papers should be submitted in English. 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.math.uaic.ro/~caim2010

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

ROMAI Journal, Annals of AOSR, *Mathematics and Its Applications*, a Proceedings volume edited by the Romanian Society of Applied and Industrial Mathematics (ROMAI) , and ROMAI Educational Journal.

More Information

The papers **for Sections 1-7** will be published, after a reviewing process in accordance with Scientific Committee recommendation, in:

- ROMAI Journal, (a B⁺ in the CNCSIS classification journal, and indexed by ZBM and MR), web page <http://rj.romai.ro>,
- the Annals of AOSR, *Mathematics and Its Applications*, web page <http://www.mathematics-and-its-applications.com/>
- a Proceedings volume edited by the Romanian Society of Applied and Industrial Mathematics (ROMAI).

For ROMAI J and ROMAI Proceedings, the 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.

For the papers in the Annals of AOSR, *Mathematics and Its Applications*, see the instructions for authors in web page <http://www.mathematics-and-its-applications.com/>

The authors are kindly asked to submit also the paper in pdf format.

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

averionro@yahoo.com.

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

Conference language: English

The prize Adelina Georgescu for applied mathematics

aims to promote the outstanding results of the young mathematicians (till 40 years old) from Romania and Moldova. Details about the participation, in Romanian, can be found at

at http://www.romai.ro/index.php?option=com_content&view=article&id=153&Itemid=214.

You are kindly invited to apply.

General Information

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 Iași: the "Al.I. Cuza" University - <http://www.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.

Iași 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. 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 Alexandru Ioan Cuza, the first ruler of the United Principalities of Moldavia and Wallachia, founded in Iași the first university in Romania. Many Romanian personalities lived, studied, worked and created in Iași. 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.

Accommodation

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

Rooms in the school hostel will be available, too.

Social Program

Official dinner. Excursion. The cost of the excursion is 150 RON.

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

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

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} }
\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
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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.
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- \end{document}