



- **Romanian Society of Applied and Industrial Mathematics - ROMAI,**
- **"Alexandru Ioan Cuza" University of Iasi - UAIC,**
- **"Gh. Mihoc - C. Iacob" Institute of Mathematical Statistics and Applied Mathematics, of the Romanian Academy - ISMMA,**
- **Institute of Computer Science of the Romanian Academy - Iasi Branch,**
- **Academy of Romanian Scientists - AOSR**

cordially invite you to

**THE 25th CONFERENCE ON APPLIED AND INDUSTRIAL
MATHEMATICS**

CAIM 2017

Iasi, Romania, September 14-17, 2017

The Romanian Society of Applied and Industrial Mathematics (ROMAI), "Alexandru Ioan Cuza" University of Iasi, "Gh. Mihoc - C. Iacob" Institute of Mathematical Statistics and Applied Mathematics of the Romanian Academy (Bucharest), Institute of Computer Science of the Romanian Academy - Iasi Branch and the Academy of Romanian Scientists (Bucharest) announce the organization of the 25th Conference on Applied and Industrial Mathematics - [CAIM 2017](http://www.romai.ro). The Conference will be held at the University of Iasi between 14 and 17 of September, 2017.

On the Organizing Institutions

1. 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). The web page of ROMAI is www.romai.ro.

2. Universities in Iasi: the "Alexandru Ioan 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.

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.

3. "Gh. Mihoc - C. Iacob" Institute of Mathematical Statistics and Applied Mathematics is an institute of the Romanian Academy and was founded in 2001 by the unification of two institutes: Center of Mathematical Statistics and "Caius Iacob" Institute of Applied Mathematics. The domains of research are: Probability and Stochastic Processes, Statistical Inference, Operational Research, Dynamical Systems and Control Theory, Fluid Mechanics, Partial Differential Equations and applications in Environmental and Life Sciences. Further information on the activity of this institute may be found at www.ima.ro.

4. The Academy of Romanian Scientists is the continuator of the Academy of Sciences of Romania (1936-1948) and of the Association of Romanian Scientists (founded in 1956), that in 1996 became the Academy of Romanian Scientists. In 2007 it was organized in the actual form. Among the honorific members of the Academy of Sciences of Romania we remind the following winners of Nobel Prize: Louis de Broglie, Jean Perrin, Max Born, Werner-Karl Heisenberg, Paul Sabatier, Friedrich Bergius, Paul Karrer, George Emil Palade. The web page of the Academy of Romanian Scientists is www.aosr.ro/en/.

5. The Institute of Computer Science of the Romanian Academy, Iasi, is the first institute created by the Section of Computer Science and Information Technology of Romanian Academy. The Institute was a subsidiary of Bucharest's Research Institute for Computers and Informatics until June 1990. There after the institute was formally established and included into the Iasi Branch of the Romanian Academy. The main research directions of the institute are the following: image and video processing and analysis; signal processing with fuzzy systems and neural networks; speech analysis and synthesis; automated analysis and generation of natural language; distribution systems and concurrency. The web page of the Institute of Computer Science of the Romanian Academy - Iasi branch is iit.academiaromana-is.ro.

Objectives of CAIM 2017

CAIM 2017 provides a forum for the review of the recent trends in applied mathematics: mathematical modeling, **studies of models coming from industry, biology, economy**, either from a qualitative or from a numerical point of view. Since theoretical studies find sooner or later their applicability, the conference has also sections for the theoretical branches of mathematics like algebra or



geometry. Computer science communications are welcome. The conference 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.

A very special section of the conference is dedicated to the mathematical teaching.

Conference Sections

- i. Partial Differential Equations;
- ii. Ordinary Differential Equations; Dynamical Systems;
- iii. Mathematical Modeling;
- iv. Real, Complex, Functional and Numerical Analysis;
- v. Probability Theory, Mathematical Statistics, Operations Research;
- vi. Algebra, Logic, Geometry (with applications);
- vii. Computer Science;
- viii. Education.

Scientific Committee

Tudor BARBU (Iași),
Constantin BĂCUȚĂ (Delaware, USA),
Dumitru BOTNARU (Chișinău),
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Wladimir-Georges BOSKOFF (Constanța),
Vasile BRINZĂNESCU (Bucharest),
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Ovidiu CÂRJĂ (Iași),
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Vasile POSTOLICĂ (Bacău),
Carmen ROCȘOREANU (Craiova),
Bianca SATCO (Suceava),
Ioan STANCU MINASIAN (Bucharest),
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Mirela ȘTEFĂNESCU (Constanța),
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Catalin TRENCEA (Pittsburgh, USA),
Rodica TUDORACHE (Iasi),
Mihai TURINICI (Iași),
Gheorghică ZBĂGANU (Bucharest).

Organizing Committee

President: Costică MOROȘANU (President of ROMAI, Iași)

Vice President: Tudor BARBU (IIT, Iasi)

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Carmen ROCȘOREANU (Vice-president of ROMAI, Craiova),
Anca Veronica ION (ISMMA, Bucharest),
Serban VLAD (Oradea)

Local Organizing Committee (University of Iasi)

Costică Moroșanu, Anca Croitoru, Tudor Barbu, Silviu Paval,
Samoila Diana-Alina, Carmina Manole, Andreea Grajdeanu.

Location

CAIM 2017 will take place at the “Alexandru Ioan Cuza” University of Iasi-UAIC,
Address: 11, bd. Carol I, 700506, Iasi, Romania, <http://www.uaic.ro>,
Tel. +40 232 201000, Fax: +40 232 201201, university e-mail: contact@uaic.ro



CAIM 2017 Preliminary Program

September 14, 2017

14,00 – 23,00 – Registration at the **R body building** of the UAIC, Alexandru Lăpușneanu 26, 700057, Iasi

September 15, 2017

Registration; Opening Ceremony at the **R body building - R502 (conference room)** of the UAIC, Alexandru Lăpușneanu 26, 700057, Iasi;

Works of the Conference.

September 16, 2017

Works of the Conference;

Closing Ceremony; ROMAI – General Assembly; Official Dinner.

September 17, 2017

Excursion: *to be announced*; Departure of participants.

Registration

The registration will be done on the web page of CAIM 2017,

http://www.romai.ro/conferintele_romai/caim2017/registration_and_fees.html.

The participants are kindly asked to send the abstracts by e-mail, to caim2017@yahoo.com .

Important Dates

Submission of abstracts deadline: – August 15

Notification of acceptance (for presentation): – August 31

Online registration and confirmation of participation to the conference: – September 1

Conference period: - September 14-17

Conference Fees

Registration fee, general : 100 Euro;

Registration fee, ROMAI members: 100 Lei;

Registration fee, special fee: 60 Lei.

The costs of official dinner and the excursion are not included in the above fees. They will be specified in the Second Announcement.



Payment methods

The foreign participants are kindly asked to pay the fee until September 1, in the account of **ROMAI: RO19BRDE445SV10137674160**, held at **BRD-Groupe Société Générale**, SWIFT **BRDEROBU**. Romanian participants and participants from Republic of Moldova may pay either in the account of **ROMAI: RO23BRDE445SV00031164160**, held at **BRD - Groupe Société Générale**, TRIUMF, Bucharest, or at the Registration Desk.

CONCERNING ABSTRACTS AND PAPERS

1. ABSTRACTS.

The abstracts for Sections 1-7 will be written in English, by using the LATEX template below.

CAIM Abstracts Template (for sections 1-7)

```
\documentclass[11pt, a4paper]{article}
\begin{document}
\title{Title of the abstract}
\author{Author$^1$, Author$^2$ \ \ $^1$Affiliation, $^2$Affiliation }
\date{}
\maketitle
Text of abstract.
\end{document}
```

The abstracts for Section 8 may be written by using Microsoft Word (in English or Romanian).

The Abstracts for all sections must be sent by email at the address caim2017@yahoo.com.

The authors are also asked to name the files containing the abstracts with the name of the Corresponding Author (for example IONESCU-Andrei.tex, or, for Section 8, IONESCUAndrei.doc). The Scientific Committee will select the works that will be communicated and will announce the authors in at most two weeks from the moment of receiving the abstracts about the acceptance (or non-acceptance) of the paper.

2. PAPERS.

After the Conference, the Scientific Committee will select from the presented papers, the papers to be published in ROMAI Journal for Sections 1-7, and in ROMAI Educational Journal for Section 8. The Scientific 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.

Instructions for Authors

For Sections 1-7, the papers must be written in LATEX 2e, according to the instructions for authors posted at:



http://www.romai.ro/conferintele_romai/caim2017/instructions_for_authors.html .

The authors are kindly asked to submit also the paper in pdf format. **For Section 8**, the papers must be written by using Microsoft Word, in Romanian or in English. All papers will be sent to caim2017@yahoo.com

Travel

Iasi is accessible by train or by plane. See below the webpages of the airport in Bucharest, the airport in Iasi and the schedule of trains in Romania.

Airport "Henri Coandă"-București <http://www.otp-airport.ro/>

Iasi International Airport https://en.wikipedia.org/wiki/Iași_International_Airport

Train schedule <http://www.mersultrenurilorcfr.ro/imtif/rute.aspx?lng=en>

The website for travel and tourism <http://www.romaniatourism.com/>

Accommodation

The participants should make a reservation at one of the hotels below:

Astoria, Moldova, Zimbru, Hotel ***; Unirea, Traian, Hotel ****

<http://www.booking.com/city/ro/iasi-ro.en-gb.html>

A number of 30 rooms will be also available in one of the Students Hostels of the University of Iasi (Akademos, Gaudeamus) at a low cost. Please mention in the online registration form if you want lodging in the Students Hostel.

Weather

In September weather is usually nice in Iasi, with temperatures between 13 and 23 Celsius degrees.

Contact: caim2017@yahoo.com