

- **Romanian Society of Applied and Industrial Mathematics**
- **University of Craiova**
- **"Gh. Mihoc - C. Iacob" Institute of Mathematical Statistics and Applied Mathematics, of the Romanian Academy**
- **Academy of Romanian Scientists**

**cordially invite you to**  
**THE 24<sup>th</sup> CONFERENCE ON APPLIED AND INDUSTRIAL**  
**MATHEMATICS**

**CAIM 2016**

**Craiova, Romania, September 15-18, 2016**

The Romanian Society of Applied and Industrial Mathematics (ROMAI), University of Craiova, "Gh. Mihoc - C. Iacob" Institute of Mathematical Statistics and Applied Mathematics of the Romanian Academy (Bucharest), and the Academy of Romanian Scientists (Bucharest) announce the organization of the 24<sup>th</sup> Conference on Applied and Industrial Mathematics - CAIM 2016. The Conference will be held at the University of Craiova between 15 and 18 of September, 2016.

### **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](http://www.romai.ro) .

2. The *University of Craiova* was founded in 1965/1966, when the faculties of Mathematics (established in 1959 as part of the *Institute of Pedagogy*), Chemistry, Philology, Electrical Engineering, Agronomy and Horticulture were united under the same administration. It is currently structured into 11 faculties: Mathematics and Natural Sciences, Letters, Economics and Business Administration, Electrical Engineering, Mechanical Engineering, Automation, Computers and Electronics, Law and Administrative Sciences, Agriculture and Horticulture, Theology, Social Sciences, Physical Education and Sports. Through its Undergraduate, Master and PhD study programs, the *University of Craiova* provides high quality teaching and training for about 22000 students. The scientific research/artistic centers of the *University of Craiova* provide a framework for the development of scientific research and human resources training in advanced science fields.

In Craiova there is also a University of Medicine and Pharmacy.

Information on the *University of Craiova* can be found at <http://www.ucv.ro/en/> .

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](http://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 <http://www.aosr.ro/en/>.

## Objectives of CAIM 2016

CAIM 2016 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 more 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.

Traditionally, our Conferences in Applied and Industrial Mathematics have a Section devoted to undergraduate mathematical education.

**Webpage of CAIM 2016:** [http://www.romai.ro/conferintele\\_romai/caim2016\\_en.html](http://www.romai.ro/conferintele_romai/caim2016_en.html)

## Conference Sections

1. Real, Complex, Functional and Numerical Analysis;
2. Partial Differential Equations with applications in Mechanics, Biology, etc.;
3. Ordinary Differential Equations; Dynamical Systems;
4. Probability Theory, Mathematical Statistics, Operations Research;
5. Algebra, Logic, Geometry (with applications);
6. Mathematical Modeling;
7. Computer Science;
8. Education.

## Scientific Committee

Nuri AKSEL (Bayreuth), Constantin BĂCUȚĂ (Delaware, U.S.A.), Dumitru BOTNARU (Chișinău), Tassos BOUNTIS (Patras), Sergiu CATARANCIUC (Chișinău), Victor CHEPOI (Marseille), Acad. Mitrofan CIOBANU (Chișinău), Acad. Constantin CORDUNEANU (Arlington, USA), Piergiulio CORSINI (Italy), Rodica CURTU (Iowa), Mathias DEHMER

(Austria), Angelo FAVINI (Bologna), Vladimir GERDT (Russian Federation), Bogdan KAZMIERCZAK (Poland), Victor LEPIN (Minsk), Boris LOGINOV (Ulyanovsk), Nenad MLADENOVICI (Birmingham), Andrei MOROIANU (Paris), Gheorghe MOROȘANU (Budapesta), Lidia PALESE (Bari), Mihail POPA (Chișinău), Maido RAHULA (Estonia), Kumbakonam RAJAGOPAL (Texas), Liliana RESTUCCIA (Messina), Ruggero Maria SANTILLI (U.S.A.), Dana SCHLOMIUK (Montreal), Kiyoyuki TCHIZAWA (Tokyo), Ioan TODINCĂ (Orléans), Nicolae VULPE (Chișinău), Mihai ANASTASIEI (Iași), Vladimir BĂLAN (Bucharest), Cornelia-Livia BEJAN (Iasi), Wladimir-Georges BOSKOFF (Constanța), Vasile BRÂNZĂNESCU (Bucharest), Daniel BREAZ (Alba Iulia), Ilie BURDUJAN (Iași), Adrian CARABINEANU (Bucharest), Ovidiu CĂRJĂ (Iași), Sanda CLEJA-ȚIGOIU (Bucharest), Adrian CONSTANTINESCU (Bucharest), Ion CRĂCIUN (Iași), Narcisa APREUTESEI DUMITRIU (Iași), Gabriel DIMITRIU (Iași), Ioan DZITAC (Oradea), Constantin FETECĂU (Iași), Paul GEORGESCU (Iași), Călin Ion GHEORGHIU (Cluj), Stelian ION (Bucharest), Anca Veronica ION (Bucharest), Acad. Marius IOSIFESCU (Bucharest), Gabriela MARINOSCHI (Bucharest), Acad. Solomon MARCUS (Bucharest), Ioan MAXIM (Suceava), Acad. Radu MIRON (Iași), Ioana MOISIL (Sibiu), Sergiu MOROIANU (Bucharest), Costică MOROȘANU (Iași), Titus PETRILA (Cluj-Napoca), Ariadna-Lucia PLETEA (Iasi), Constantin POPA (Constanța), Vasile POSTOLICĂ (Bacău), Carmen ROCȘOREANU (Craiova), Bianca SATCO (Suceava), Ioan STANCU MINASIAN (Bucharest), Mihaela STERPU (Craiova), Mirela ȘTEFĂNESCU (Constanța), Dan TIBA (Bucharest), Acad. Ioan TOMESCU (Bucharest), Catalin TRENCHIA (Pittsburgh, U.S.A), Rodica TUDORACHE (Iasi), Mihai TURINICI (Iași), Gheorghică ZBĂGANU (Bucharest).

## Organizing Committee

**President:** Costică MOROȘANU (President of ROMAI, Iași)

**Vice President:** Carmen ROCȘOREANU (Vice-president of ROMAI, University of Craiova)

**Members:** Mitrofan CIOBANU (Vice-president of ROMAI, Chișinău), Călin Ion GHEORGHIU (Vice-president of ROMAI, ICTP, Cluj), Stelian ION (Vice-president of ROMAI, ISMMA, Bucharest), Anca Veronica ION (ISMMA, Bucharest), Serban VLAD (Oradea)

## Local Organizing Committee (University of Craiova)

Carmen Rocșoreanu  
Mihaela Sterpu  
Adela Ionescu  
Laura Ungureanu  
Petre Băzăvan

## Location

CAIM 2016 will take place at the University of Craiova

Address: 13, A.I. Cuza, 200585, Craiova, Romania, Tel. +40 251 414 548

Fax: +40 251 411688 , e-mail: [rectorat@central.ucv.ro](mailto:rectorat@central.ucv.ro)

## CAIM 2016 Preliminary Program

### September 15, 2016

14,00 – 23,00 – Registration at the Central Building of the University of Craiova, 13 A. I. Cuza, Craiova

### September 16, 2016

Registration, Opening Ceremony at the **Blue Hall**, Central Building, 13 A. I. Cuza, Craiova  
Works of the Conference.

### September 17, 2016

Works of the Conference, Closing Ceremony, ROMAI – General Assembly, Official Dinner.

### September 18, 2016

Excursion. The route will include Târgu Jiu, where some works of one of the most influential sculptors of the 20th-century, Constantin Brâncuși, will be visited: the *Endless Column*, the *Gate of the Kiss* and the *Table of Silence*.

Departure of participants.

## Registration

The registration will be done on the web page of CAIM 2016,

[http://www.romai.ro/conferintele\\_romai/caim2016/registration\\_and\\_fees.html](http://www.romai.ro/conferintele_romai/caim2016/registration_and_fees.html).

The participants are kindly asked to send the abstracts by e-mail, to [caim2016@yahoo.com](mailto:caim2016@yahoo.com).

## Important Dates

<b>Online registration deadline:</b>	<b>- July 27</b>
<b>Submission of abstracts deadline:</b>	<b>- August 15</b>
<b>Notification of acceptance</b> (for presentation):	<b>- August 31</b>
<b>Conference period:</b>	<b>- September 15-18</b>
<b>Deadline to submit papers:</b>	<b>- October 15</b>

## Conference Fees

**Registration fee** (that includes organizing expenses and coffee breaks):

Romanian participants - **150 lei**;

For the Romanian members of ROMAI that have paid their Member Fee for 2015 - **100 lei**;

Foreign participants - **60 Euro**;

Participants from Republic of Moldova – **75 lei** (RO -lei).

**The costs of official dinner and the excursion are not included in the above fees. Their amount 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}
```

Besides the tex file, please send the pdf file of the Abstract. 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 [caim2016@yahoo.com](mailto:caim2016@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, IONESCU-Andrei.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/caim2016/instructions\\_for\\_authors.html](http://www.romai.ro/conferintele_romai/caim2016/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 **[caim2016@yahoo.com](mailto:caim2016@yahoo.com)**

## Travel

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

Airport "Henri Coandă"-București <http://www.otp-airport.ro/>  
Craiova International Airport <http://www.aeroportcraiova.ro/en/>  
Train schedule <http://www.mersultrenurilorcfr.ro/imitif/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:

Ramada Plaza Craiova Hotel\*\*\*\* <http://www.ramada.com/hotels/romania/craiova/ramada-plaza-craiova/hotel-overview>  
Meliss Hotel\*\*\*\* <http://www.hotelmeliss.ro/>  
Rexton Hotel\*\*\*\* <http://www.hotelrexton.ro/>  
Plaza Hotel\*\*\*\* <http://www.hotelplaza.ro/home.html>  
Helin Central Hotel\*\*\* <http://www.helincentral.ro/en-index.html>  
Green House Hotel\*\*\* <http://www.green-house.ro/>

A number of 20 rooms will be also available in one of the Students Hostels of the University of Craiova at a low cost. Please mention in the registration form online if you want lodging in the Students Hostel.

## Weather

At the end of September weather is usually nice in Craiova, with temperatures between 13 and 23 Celsius degrees.

**Contact:** [caim2016@yahoo.com](mailto:caim2016@yahoo.com)