

- Romanian Society of Applied and Industrial Mathematics
- Faculty of Mathematics and Computer Science, University of Bucharest
- "Gh. Mihoc - C. Iacob" Institute of Mathematical Statistics and Applied Mathematics of the Romanian Academy

cordially invite you to

THE 21st CONFERENCE ON APPLIED AND INDUSTRIAL MATHEMATICS

CAIM 2013

Bucharest, Romania, September 19-22, 2013

The Romanian Society of Applied and Industrial Mathematics (ROMAI), The Faculty of Mathematics and Computer Science of University of Bucharest, and "Gh. Mihoc - C. Iacob" Institute of Mathematical Statistics and Applied Mathematics of the Romanian Academy announce the organization of the 21st Conference on Applied and Industrial Mathematics - CAIM 2013. The Conference will be held at the Faculty of Mathematics and Computer Science, University of Bucharest between 19 and 22 of September, 2013.

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. The Faculty of Mathematics and Computer Science of University of Bucharest is situated in the very center of Bucharest. The University was founded in 1864 and at the beginning, mathematics was taught at The Faculty of Natural, Mathematical and Physical Sciences (this one existing since 1863) that later became The Faculty of Sciences. This latter was split, in 1866, in two departments: that of physical-mathematical sciences and that of physical-natural sciences. From the department of physical-mathematical sciences originates the actual Faculty of Mathematics and Computer Science. During its

existence, the Faculty was honoured to have as Professors remarkable Romanian mathematicians such as: Spiru Haret, Dimitrie Pompeiu, Traian Lalescu, Gheorghe Țițeica, David Emanuel, Simion Stoilow, Victor Vâlcovici, Dan Barbilian, Alexandru Ghika, Miron Nicolescu, Gheorghe Vrânceanu, Caius Iacob, Nicolae Teodorescu, Octav Onicescu, Grigore C. Moisil, Gheorghe Mihoc, etc.

The Faculty is located in the historical building of the University, that was raised between 1857-1869. For more information concerning the Faculty, please visit <http://fmi.unibuc.ro>.

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 union 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.

Objectives of CAIM 2013

CAIM 2013 provides a forum for the review of the recent trends in applied mathematics: mathematical modeling, studies of models coming from industry, biology, economy, etc. 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 2013

http://www.romai.ro/conferintele_romai/caim2013_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. Computer Science;
7. Education.

Scientific Committee

Nuri AKSEL (Bayreuth), Catherine BANDLE (Basel), Constantin BACUTA (Delaware, U.S.A.), Dumitru BOTNARU (Chisinau), Tassos BOUNTIS (Patras), Mitrofan CIOBANU (Chisinau), Piergiulio CORSINI (Italy), Mathias DEHMER (Austria), Angelo FAVINI (Bologna), Margarida FERREIRA (Porto), Vladimir GERDT (Russian Federation), Bogdan KAZMIERCZAK (Poland), Mario LEFEBVRE (Canada), Boris LOGINOV (Ulyanovsk), Nenad MLADENOVICI (Birmingham), Andrei MOROIANU (Paris), Gheorghe MOROSANU (Budapesta), Lidia PALESE (Bari), Mihail POPA (Chisinau), Maido RAHULA (Estonia), Kumbakonam RAJAGOPAL (Texas), Mefodie RATIU (Chisinau), Liliana RESTUCCIA (Messina), Ruggero Maria SANTILLI (U.S.A.), Dana SCHLOMIUK (Canada), Kiyoyuki TCHIZAWA (Tokyo), Vladilen TRENIGIN (Moscow), Nicolae VULPE (Chisinau).

Mihai ANASTASIEI (Iași), Vladimir BĂLAN (București), Șerban BASARAB (București), Lucian BEZNEA (București), Wladimir-Georges BOSKOFF (Constanța), Vasile BRĂNZĂNESCU (București), Daniel BREAZ (Alba Iulia), Ilie BURDUJAN (Iași), Adrian CARABINEANU (București), Ovidiu CÂRJĂ (Iași), Aurelian CERNEA (București), Sanda CLEJA-ȚIGOIU (București), Adrian CONSTANTINESCU (București), Ion CRĂCIUN (Iași), Narcisa APREUTESEI DUMITRIU (Iași), Gabriel DIMITRIU (Iași), Ioan DZITAC (Oradea), Constantin FETECĂU (Iași), Paul GEORGESCU (Iași), Acad. Marius IOSIFESCU (București), Gabriela MARINOSCHI (București), Ioana MOISIL (Sibiu), Costică MOROȘANU (Iași), Titus PETRILA (Cluj-Napoca), Emilia PETRIȘOR (Timișoara), Constantin POPA (Constanța), Vasile PREDA (București), Ioan STANCU MINASIAN (București), Dragoș ȘTEFAN (București), Mirela ȘTEFĂNESCU (Constanța), Dan TIBA (București), Mihai TURINICI (Iași), Gheorghică ZBĂGANU (București).

Local Organizing Committee

- Victor ȚIGOIU
- Cristian VOICA
- Cătălin GHERGHE
- Sorin STUPARIU
- Anca Veronica ION
- Stelian ION
- Ștefan Gicu CRUCEANU

Location

CAIM 2013 will take place at the Faculty of Mathematics and Computer Science, University of Bucharest.

Address: 14, Academiei Street, Bucharest.

CAIM 2013 Preliminary Program

September 19, 2013

14,00 – 23,00 – Registration at University of Bucharest.

September 20, 2013

Registration, Opening Ceremony, Works of the Conference.

September 21, 2013

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

September 22, 2013

Excursion, Departure of participants.

Registration

The registration will be done on the web page of CAIM 2013,

http://www.romai.ro/conferintele_romai/caim2013.html .

The participants are kindly asked to send the abstracts and the details of the registration also by e-mail, to caim2013@yahoo.com .

Important Dates

Registration and submission of abstracts deadline: - June 20 – for participants that wish lodging in the Students' Hostel or in Academica Hotel

(see Accomodation below);

- August 15, -for participants not in the above category;

Notification of acceptance (for presentation): - September 1;

Deadline to submit papers: - October 15;

Conference period: - September 19-22.

Conference Fees

Registration fee (including organizing expenses and coffee breaks):

Romanian participants - **100 lei**;

For the Romanian members of ROMAI that have paid their Member Fee for 2012 - **70 lei**;

Foreign participants - **50 Euro**;

Participants from Republic of Moldova – **50 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

RO19BRDE445SV10137674160, held at **BRD-Groupe Société Générale**, SWIFT **BRDEROBU**.

Romanian participants and participants from Republic of Moldova may pay either in the account

RO23BRDE445SV00031164160, held at **BRD- Groupe Société Générale**, TRIUMF, Bucharest.

or at the Registration Desk.

CONCERNING ABSTRACTS AND PAPERS

1. ABSTRACTS.

The abstracts for **Sections 1-6** will be written in English, by using the LATEX template below.

CAIM Abstracts Template (for sections 1-6)

```
\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 7** will be written by using Microsoft Word (in English or Romanian).

For the security of data transmission, the authors are kindly asked to send the .pdf file (Sections 1-6) or the .doc file (Section 7) of the abstracts also by e-mail at the address caim2013@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.pdf, or, for Section 7, 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 (<http://rj.romai.ro/>) for Sections 1-6, and in ROMAI Educational Journal (<http://rej.romai.ro/>) for Section 7.

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 1-6, the papers must be written in LATEX 2e, according to the instructions for authors posted at http://www.romai.ro/conferintele_romai/caim2013/instructions_for_authors.html.

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

For Section 7, the papers must be written by using Microsoft Word, in Romanian or in English.

All papers will be sent to caim2013@yahoo.com

Travel. You can reach Bucharest:

1. by plane – to the Henri Coanda Airport.
2. by train - to the Northern Railway Station (Gara de Nord).

Access

1. From the Henri Coanda Airport. Express line 783 connects the airport with the University square in center of Bucharest (approximately 60 minutes). The departure station is situated at the

groundfloor of the "Arrival" terminal in front of the "Internal flights" terminal. Buses timetable: Monday-Friday each 15 minutes from 05:30 up to 20:00 and at each 30 minutes from 20:30 up to 23:00. Saturday and Sunday at each 30 minutes from 05:30 up to 23:00. Traveling cards can be bought in front of "Internal flights" terminal.

2. From the Northern Railway Station. The trolley 85 connects the Northern Railway Station to the University square.

Accommodation

1. The participants at the conference are kindly asked to contact a hotel in Bucharest to make a reservation for the period of the conference. We recommend the following hotels:

- Armonia,
- Marshal,
- Siqua.

2. A certain number of rooms will be available at the hotel Academica of the University of Bucharest, at the price of 160 lei/double room/night and 100lei/single room/night.

3. A certain number of rooms will be also available in the Students Hostel of the Faculty of Mathematics and Computer Science of Bucharest at a low cost.

IMPORTANT: The reservations at the Hotel Academica or at the Student Hostel will be made by the Organizing Committee as a result of the options for lodging expressed by the participants at the registration. These options must be expressed before June 20, 2013.

Weather

At the end of September weather is usually nice in Bucharest, with temperatures between 17 and 25 Celsius degrees.

Contact: caim2013@yahoo.com.