

- **Romanian Society of Applied and Industrial Mathematics**
- **Mathematical Society of the Republic Moldova**
- **Tiraspol State University**
- **Institute of Mathematics and Informatics**
- **Moldova State University**
- **Academy of Economical Studies of Moldova**

cordially invite you to

**THE 20th CONFERENCE ON APPLIED AND INDUSTRIAL
MATHEMATICS,
Dedicated to
Academician Mitrofan M. Cioban**

CAIM 2012

Chisinau, Republic of Moldova, August 22-25, 2012

FIRST ANNOUNCEMENT

The Romanian Society of Applied and Industrial Mathematics (ROMAI), Mathematical Society of the Republic Moldova, Tiraspol State University, Institute of Mathematics and Informatics, Moldova State University, Academy of Economical Studies of Moldova announce the organization of the 20th Conference on Applied and Industrial Mathematics - CAIM 2012. The Conference will be held in Chisinau, between the 22 and the 25 of August, 2012.

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).

Chişinău (Romanian pronunciation: [kiʃinəw]; historically also known as *Kishinev*, from Russian: Кишинёв) is the capital and largest municipality of Moldova. It is also its main industrial and commercial centre and is located in the middle of the country, on the river Bîc. According to the January 2012 official estimates, Chişinău has a population of 800000 persons and the municipality of Chişinău has 1000000 residents recorded.

Chişinău is the most prosperous city in Moldova, and its largest transportation hub. As the most economically and socially important municipality in Moldova, the city has a broad range of educational facilities.

Chişinău has an international airport, which offers connections with major cities including Athens, Bucharest, Frankfurt, Istanbul, Kiev, London, Madrid, Milan, Moscow, Paris, Rome, Vienna and others. The airport handled 1,045,975 passengers in 2011.

More information, please see:

http://www.youtube.com/watch?v=eCRifa7Si_Y&feature=youtu.be
<http://www.youtube.com/watch?v=eCRifa7Si_Y&feature=youtu.be>

Travel information

The Air Moldova flight operator has its head office in the area of the Chişinău International Airport. The most popular form of internal transport in Moldova is generally the bus. Bus services in Chişinău are not expensive, ranging from 2 to 3 lei for a ticket (about \$0.20–0.30). Although the city has three main train stations, buses generally serve as the means of transport between different cities within and outside of Moldova. Popular destinations include Tiraspol, Odessa (Ukraine), Iaşi and Bucharest (Romania). Within Chişinău and its suburbs, privately operated minibuses, known as "routers" generally follow the major bus and trolleybus routes and are used more frequently.

Objectives

CAIM 2012 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. It 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.

Graduate students and post-docs interested in these rapidly developing fields are warmly welcome.

This edition is especially dedicated to researches in **algebra, geometry and topology and their applications**.

Conference Sections

1. Mathematical analysis and differential equations
2. Algebra and Logic
3. Geometry and Topology
4. Analytical and numerical methods in partial differential equations
5. Computer sciences
6. Mathematical Models in Industry, Physics and Biology
7. Education

Scientific Committee

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Organizing Committee

Locally Organizing Committee

<ul style="list-style-type: none"> ○ M. Cioban, ○ C. Gaindric, ○ L. Calmuțchi, ○ G. Ciocanu ○ S. Cojocaru, ○ I. Bunu, ○ A. Cașu, ○ L. Chiriac, ○ I. Costăș, ○ E. Gheorghită ○ A. Hariton, ○ D. Lozovanu ○ A. Lungu, ○ I. Lupu, ○ G. Mișcoi ○ V. Neaga, ○ M. Popa, ○ A. Perjan, ○ V. Șcerbacov, ○ A. Șubă, ○ V. Ursu, 	<ul style="list-style-type: none"> ○ D. Afanas, ○ A. Braicov ○ G. Capățână, ○ S. Cataranciuc, ○ D. Cozma, ○ F. Damian, ○ V. Guțu ○ L. Sali, ○ P. Sârbu, ○ I. Secrieru ○ V. Seiciuc, ○ I. Valuță ○ D. Zambîțchi
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Location

CAIM 2012 will take place at the Tiraspol State University, G. Iablocichin 5, MD 2069, Chisinau, Republic of Moldova

Tel: 373-22-75-49-24

Fax: 373-22-75-49-24

E-mail: iti@ust.md

The best access to the Conference location is by taxi from the train station or from the airport.

Accommodation

The participants at the conference are kindly asked to contact one of the following hotels situated in the proximity of the University.

- Institutul Muncii, <http://institutulmuncii.org/>
- Hotel Zarea, www.hotel-zarea.com/
- Hotel Codru, www.codru.md/
- Hotel Turist, Chisinau, 9, G. Vieru blvd.
- www.hotels.md/ro/moldova-hotels/

Places in student hostels will be provided for participants who will choose this option.

Social Program

Official dinner. Excursion.

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

Travel

You can reach Chisinau:

- By plane: the nearest airport is Chisinau International Airport, located about 20 km from the hotels and university campus. The airport is operated by:
 1. LUFTHANSA, from Frankfurt on Main, www.lufthansa.com
 2. AIR MOLDOVA, <http://www.airmoldova.md>
 3. TAROM, from Bucharest; please consult timetable of TAROM at <http://www.tarom.ro>.
 4. CARPATAIR, via Timișoara, from Vienna, Roma, Torino, Munchen, Stuttgart (and others); please consult <http://www.carpatair.com>
 5. AUSTRIAN AIRLINES, via Vienna; please consult <http://www.aua.com>
 6. MALEV, via Budapest; please consult <http://www.malev.com>

From the Chisinau Airport, downtown hotels and the conference location can be reached within 30 minutes by car. A taxi ride costs around 80 MDL (5.5 €).

- By train: please consult www.railway.md/
- By car: plan your trip using [ViaMichelin](http://www.viamichelin.com)

Registration

Registration deadline: July **01, 2012**

The registration can be made on line at the web page of the Tiraspol State University, www.caim2012.ust.md that will be available in a few days.

Conference Fees

Registration fee (August 22, 2012)

Local participants 150 MDL, foreign participants 180 €, foreign participants from former socialist countries 50 €;

Important Dates

Registration deadline: 01.07.2012

Notification of acceptance (for presentation): 01.08.2012

Deadline to submit papers: 10.07.2012

Conference period: 22-25 August, 2012

ABSTRACTS. The abstracts must be written in English for all sections, in accordance with the Registration Form.

The abstracts for Sections 1-6 will be written by using, the LATEX 2e template below.

The abstracts for Section 7 will be written by using Microsoft Word.

CAIM Abstracts Template (for sections 1-6)

```
\documentclass[10pt,a4paper]{article}
\usepackage{amsmath}
\usepackage{amssymb}
\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
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. Instructions for Authors

For Sections 1-6, the papers must be written in LATEX 2e, following the instructions for authors posted on the web page of ROMAI Journal (<http://rj.romai.ro>). 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.

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 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.romai.ro

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

- *The journal "Buletinul Academiei de Stiinte a Republicii Moldova. Matematica"* (<http://www.math.md/en/publications/basm/>)
- *ROMAI Journal* (please check www.romai.ro),
- *Annals of AOSR, Mathematics and Its Applications* (www.mathematics-and-its-applications.com)
- *ROMAI Educational Journal* (www.romai.ro).

The papers for Sections 1-6 will be sent to Cozma Dumitru, dcozma@gmail.com

The papers for Section 7 will be sent to Braicov Andrei, abraicov@gmail.com

Contact

Department of Mathematics and Computer Sciences

Tiraspol State University,

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Fax: 373-22-75-49-24

E-mail: iti@ust.md

Weather

In August (summer in Republic of Moldova), the temperature is about 17-24 Celsius deg and the days are usually sunny.

CAIM 2012 Preliminary Program

August 22, 2012

14,00 – 23,00 – Registration at Tiraspol State University

August 23, 2012

7,00 – 9,00 – Registration at Tiraspol State University

09,00 – 09,45 – Opening Ceremony

09,45 – 10,00 – Coffee Break

10,00 – 13,00 – Plenary Lectures

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

August 24, 2012

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 – 18,30 – Closing ceremony

18,30 – 19,30 – ROMAI – General Assembly

20,00 – 22,30 – Official Dinner

August 25, 2012

– Excursion

Contact Addresses:

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