

- **Romanian Society of Applied and Industrial Mathematics**
- **“Gheorghe Mihoc-Caius Iacob” Institute of Mathematical Statistics and Applied Mathematics of Romanian Academy**
- **Mathematical Society of the Republic Moldova**
- **Tiraspol State University**
- **Vladimir Andrunachievici Institute of Mathematics and Computer Science**
- **Moldova State University**
- **Academy of Economic Studies of Moldova**
- **Technical University of Moldova**
- **Alecu Russo State University of Bałți**

cordially invite you to

**THE 29th CONFERENCE ON APPLIED AND INDUSTRIAL
MATHEMATICS,
CAIM 2022**

Chisinau, Republic of Moldova, August 25-27, 2022

**Dedicated to the memory of
Academician Mitrofan M. Cioban**

FIRST ANNOUNCEMENT

The Romanian Society of Applied and Industrial Mathematics (ROMAI), “Gheorghe Mihoc-Caius Iacob” Institute of Mathematical Statistics and Applied Mathematics of Romanian Academy, Mathematical Society of the Republic Moldova (MSM), Tiraspol State University (TSU), Vladimir Andrunachievici Institute of Mathematics and Computer Science (VAIMCS), Moldova State University (USM), Academy of Economic Studies of Moldova (ASEM), Technical University of Moldova (TUM), Alecu Russo State University of Bałți (USARB) announce the organization of the 29th Conference on Applied and Industrial Mathematics - CAIM 2022. The Conference will be held in Chisinau, between the 25 and the 27 of August, 2022.

Chișinău (Romanian pronunciation: [kiʃinəw]; historically also known as *Kishinev*, from Russian: Кишинёв) is the capital and largest municipality of Moldova, founded in 1436. It is also its main industrial and commercial center and is located in the middle of the country, on the river Bic.

According to the January 2022 official estimates, municipality of Chişinău has a population of 779332 persons.

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. Being situated 13 km away from the center of the capital, **the Chisinau Airport** (IATA: KIV; ICAO: LUKK) is the main and biggest **airport** of the Republic of Moldova.

The first scheduled flights to Chişinău started on 24 June 1926, on the route Bucharest-Galati-Chişinău and Iasi. The airport handled 1,200,000 passengers per year.

More information, please see: <http://www.airport.md/>

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. 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 Soroca, Orhei, 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 of CAIM 2022

CAIM 2022 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 and informatics. Computer science communications are welcome. 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 Engineering and Life Sciences.

Graduate students and PhD students 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. Partial Differential Equations;
2. Ordinary Differential Equations, Dynamical Systems;
3. Mathematical Modeling in Engineering and Life Sciences;
4. Real, Complex, Functional and Numerical Analysis;
5. Probability Theory, Mathematical Statistics, Operations Research;
6. Algebra, Logic, Geometry, Topology;
7. Computer Science;
8. Education.

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	Mihaela HAJDEU (Lecturer, Tiraspol State University)

Location

CAIM 2022 will take place at the
Tiraspol State University,
Gh. Iablocikin 5, MD 2069,
Chisinau, Republic of Moldova
Tel: +373-22-74-79-19
+373 67590658
E-mail: caim2022@ust.md

The conference website <https://ust.md/caim2022/>

Besides of taxi or car one can also hit the Conference location by trolleybus, number 5, 8, 23, 34.

Accommodation

For lodging, we recommend one of the following hotels, situated in the proximity of the Conference location.

- Institutul Muncii, <http://institutulmuncii.org/>
- Hotel Zarea, <http://zarea.hotel-chisinau.com/en/>
- City Park Hotel, <http://citypark.md>
- Others, <https://www.booking.com> › [Hotels in Moldova](#)

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. AIR MOLDOVA, <http://www.airmoldova.md>
 2. AUSTRIAN AIRLINES, via Vienna; please consult <http://www.aua.com>
 3. TAROM, from Bucharest; please consult timetable of TAROM at <http://www.tarom.ro>
 4. FLY ONE, <https://flyone.eu/en/>
 5. TURKISH AIRLINES, <https://www.turkishairlines.com>
 6. PJSC Aeroflot – Russian Airlines, <https://www.aeroflot.ru/ru-en>
 7. LUFTHANSA, from Frankfurt on Main, www.lufthansa.com

From the Chisinau Airport, downtown hotels and the conference location can be reached within 30-40 minutes by car or by trolleybus (no. 30). A taxi ride costs around 200 MDL (10 €).

A trolleybus ride cost around 2 MDL (0.1 €)

- By train: please consult <http://www.railway.md/>
- By car: plan your trip using [MICHELIN Moldova map - ViaMichelin](#)

Registration

Registration deadline: **July 10, 2022**

The registration can be made online at the web page of the Tiraspol State University

<https://ust.md/caim2022/>

Conference Fees

Registration fee (August 25, 2022)

Registration fee, general: 100 Euro

ROMAI members: 50 RON

Local participants: 200 MDL

Foreign participants from former socialist countries: 200 MDL (10 Euro)

Students: free of charge

The costs of official dinner and the excursion are not included in the conference fees.

Important Dates

Registration deadline: 10.07.2022

Notification of acceptance (for presentation): 01.08.2022

Deadline to submit Abstracts: 18.07.2022

Conference period: 25-27 August, 2022

ABSTRACTS

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

The abstracts for Sections 1-7 will be written by using, the LATEX2e 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{amssymb}
\usepackage{amsbsy}
```

```

\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
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 Section 8, it can be written full articles, in Romanian or in English, that will be including in the proceedings of communications in didactics.

The paper will contain **3-5 full pages**, (pages **are not** numbered) typed according to the following requirements:

- the text of the paper will be written in Microsoft Word, on A4 paper size, Times New Roman font, font size 13, line spacing 1.25 mm;
- the **margin sizes** must have the following dimensions: Top - 2 cm; Bottom - 2 cm; Left - 2 cm; Right - 2 cm;
- **THE TITLE OF THE PAPER** will be written in **bold** capital letters, using Times New Roman font, font size 13, centered; followed in the new line, by the full name and surname of the author (authors), Times New Roman font, centered, font size 13; followed by institutional affiliation (department - for TSU collaborators; institution - for authors or co-authors from outside TSU);
- **abstracts** (200-500 signs or 75-100 words) in Romanian and English will be written without indentation, with left-right alignment and font size 11;
- **keywords:** 5-10 words, in Romanian and English, placed after abstracts;
- the **content** of the paper must aim high interest areas, according to the proposed topic for the debate; having originality and including personal experiences;
- the **references** must be inserted in the text of the paper corresponding to the bibliographic list, included in square brackets [...];

- **formulas** are incorporated in the text of the communication using the *Equation* tool;
- **graphs, histograms, drawings**, etc. must be numbered and placed in the text of the communication, followed by the title in **bold**, centered. The drawings must be grouped, so as not to lose details;
- the **tables** are numbered and incorporated in the text of the communication centered, being preceded by the title, centered, in bold;
- the works can have a maximum of 3 authors;
- the presented papers will be published in the official Proceeding of the Conference, with ISBN, UDC and indexed by ibn.idsi.md;
- The works can be presented in English, Romanian, Russian, French;
- The **bibliography** is recorded at the end of the paper, according to the SM ISO690:2012 standard.

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:

- *ROMAI Journal* (please check www.romai.ro),
- *The journal „Acta et Commentationes Exact and Natural Sciences”*. The journal is included in the Register of Scientific Journals of the Republic of Moldova in [category B](#) and can be accessed at https://ibn.idsi.md/ro/vizualizare_revista/418 (or the official website of the journal https://revista.ust.md/index.php/acta_exacte) The e-mail address of the magazine is aec@ust.md
- *The journal „Acta et Commentationes Sciences of Education”*. The journal is included in the Register of Scientific Journals of the Republic of Moldova in [category B](#) and can be accessed at <https://ibn.idsi.md/ro/aec-se> (or https://revista.ust.md/index.php/acta_educatie). The e-mail address of the magazine is reviste@ust.md

The papers for Sections 1-7 will be sent to Mihaela Hajdeu, caim2022@ust.md

The papers for Section 8 will be sent to Maria Pavel, caim2022@ust.md

Contact

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Weather

In August (summer in Republic of Moldova), the temperature is about 17-24 C⁰ and the days are usually sunny.