

ROMANIAN SOCIETY OF APPLIED AND INDUSTRIAL
MATHEMATICS
Neculai Tudor, No. 139, Bl. 1016, Ap. 9, 700713 Iasi

www.romai.ro

- Romanian Society of Applied and Industrial Mathematics - ROMAI,
- “Valahia” University of Târgoviște,
- "Gh. Mihoc - C. Iacob" Institute of Mathematical Statistics and Applied Mathematics of the Romanian Academy - ISMMA,
- Academy of Romanian Scientists – AOSR,

cordially invite you to

THE 27th CONFERENCE ON APPLIED AND INDUSTRIAL MATHEMATICS

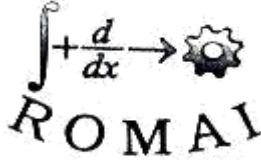
CAIM 2019

The Romanian Society of Applied and Industrial Mathematics (ROMAI), “Valahia” University of Târgoviște, “Gh. Mihoc - C. Iacob” Institute of Mathematical Statistics and Applied Mathematics of the Romanian Academy (Bucharest), and the Academy of Romanian Scientists, announce the organization of the 27th Conference on Applied and Industrial Mathematics - CAIM 2019.

The Conference will be held at “Valahia” University of Târgoviște, Romania, between 19 and 22 of September 2019.

Objectives of CAIM 2019

CAIM 2019 provides a forum for the review of the recent trends in applied and industrial mathematics 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. A special section of the conference is dedicated to the mathematical teaching. In addition to the researcher objectives CAIM 2019 will pay a special attention to the mathematical education of the young people: there will be a section dedicated to the mathematical teaching and a symposium on mathematics sustained by the students and PhD students.



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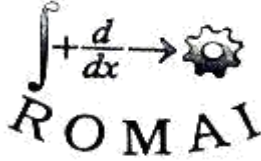
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Conference Sections

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;
7. Computer Science;
8. Education.

Symposium “New Trends in Mathematics”

The organizers deeply believe that it is vital for the mathematical future to offer to the young people the possibility to debate and communicate their thinking and/or their results in mathematics. The topic is as general as possible to allow to more mathematical students to participate at symposium.



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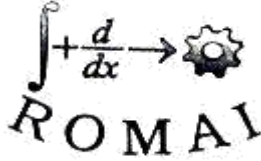
Scientific Committee

Acad. Radu MIRON (Iași),
Acad. Mitrofan CIOBANU (Chișinău),
Acad. Ioan TOMESCU (Bucharest),

Tudor BARBU (Iași),
Constantin BĂCUȚĂ (Delaware, USA),
Cornelia-Livia BEJAN (Iasi),
Wladimir-Georges BOSKOFF (Constanța),
Viorel BOSTAN (Chișinău),
Vasile BRINZĂNESCU (Bucharest),
Sergiu CATARANCIUC (Chișinău),
Sanda CLEJA-ȚIGOIU (Bucharest),
Dana CONSTANTINESCU (Craiova),
Anca CROITORU (Iași),
Ion CRĂCIUN (Iași),
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Gabriel DIMITRIU (Iași),
Irinel DRAGAN (Texas, USA),
Narcisa APREUTESEI DUMITRIU (Iași),
Ioan DZITAC (Oradea),
Angelo FAVINI (Bologna),
Constantin FETECĂU (Iași),
Paul GEORGESCU (Iași),
Călin Ioan GHEORGHIU (Cluj-Napoca),
Vladimir GERDT (Russian Federation),
Stelian ION (Bucharest),
Anca Veronica ION (Bucharest),
Gabriela MARINOSCHI (Bucharest),
Andrei MOROIANU (Paris),
Sergiu MOROIANU (Bucharest),
Costică MOROȘANU (Iași),
Lidia PALESE (Bari),
Titus PETRILA (Cluj-Napoca),
Mihail POPA (Chișinău),
Vasile POSTOLICĂ (Bacău),
Constantin POPA (Constanța),

Acad. C-tin CORDUNEANU (Arlington, USA),
Acad. Marius IOSIFESCU (Bucharest),

Liliana RESTUCCIA (Messina),
Carmen ROCȘOREANU (Craiova),
Dana SCHLOMIUK (Montreal),
Bianca SATCO (Suceava),
Ioan STANCU MINASIAN (Bucharest),
Mihaela STERPU (Craiova),
Mirela ȘTEFĂNESCU (Constanța),
Kiyoyuki TCHIZAWA (Tokyo),
Dan TIBA (Bucharest),
Ioan TODINCĂ (Orléans),
Catalin TRENCHEA (Pittsburgh, USA),
Mihai TURINICI (Iași),
Rodica TUDORACHE (Iasi),
Nicolae VULPE (Chișinău),
Gheorghită ZBĂGANU (Bucharest).



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Organizing Committee

President: Costică MOROȘANU (President of ROMAI, UAIC - Iași)

Vice-president: Calin D. OROS (Rector of Valahia" University, Târgoviște)

Members: Mitrofan CIOBANU (Vice-president of ROMAI, Chișinău)
Călin Ion GHEORGHIU (Vice-president of ROMAI, ICTP, Cluj)
Stelian ION (Secretary of ROMAI, ISMMA, Bucharest)
Anca Veronica ION (ISMMA, Bucharest)
Carmen ROCȘOREANU (Vice-president of ROMAI, Univ. of Craiova)
Ioan Corneliu SĂLIȘTEANU ("Valahia" University, Târgoviște)
Alin POHOAȚĂ (Valahia University, Targoviste)

Location

CAIM 2019 will take place at the “Valahia” University, Târgoviște,
Address: 13 Aleea Sinaia Street, Târgoviște, Romania

Web: <https://www.valahia.ro>

Tel: 0245 206 101 **Fax:** 0245 217 692

CAIM 2019 Preliminary Program

September 19, 2019

14.00 – 20.00 – Registration at Institute of Multidisciplinary Research for Science and Technology
13 Aleea Sinaia Street, Târgoviște

September 20, 2019

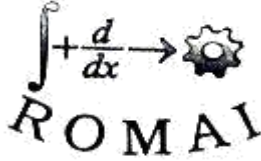
Registration; Opening Ceremony at Institute of Multidisciplinary Research for Science and Technology
13 Aleea Sinaia Street, Târgoviște
Works of the Conference, symposium

September 21, 2019

Works of the Conference; symposium; ROMAI – General Assembly; Official Dinner.

September 22, 2019

Excursion; Departure of participants.



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Registration

The authors are kindly asked to send the abstracts of their works to the email address conferences.caim@yahoo.com.

The organizers will decide upon the acceptance of the presentations and will communicate to the authors within a week their decision. The authors of accepted papers will receive, together with the decision, a REGISTRATION FORM. This form must be sent back, filled, by the participants, to the address conferences.caim@yahoo.com - **not later than September 7**. There will be no online registration.

Conference Fees

Registration fee, general: 100 Euro;
Registration fee, ROMAI members: 100 RON;
Registration fee, special fee: 50 RON;
Registration fee, students: free of charge.

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

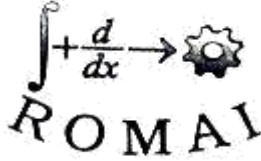
Payment methods

The foreign participants are kindly asked to pay the conference fee until September 1, to the account in EURO of ROMAI: RO19BRDE445SV10137674160, held at BRD-Groupe Société Générale, SWIFT BRDEROBU.

Participants from Romania and Republic of Moldova may pay either in the account in RON of ROMAI: RO23BRDE445SV00031164160, held at BRD - Groupe Société Générale, TRIUMF, Bucharest, **or at the Registration Desk**.

Important Dates

Submission of abstracts deadline: - **August 15**
Notification of acceptance (for presentation): - **August 31**
Confirmation of participation to the conference: - **September 7**
Conference period: - **September 19-22**.



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Abstract and Proceedings

ABSTRACTS

The abstracts that contain mathematical formulas shall be written by using LATEX. The abstracts for Sections 1-7 and symposium shall be written in English while the abstracts for Section 8 may be written in English or Romanian. All abstracts must be sent by email to the address: conferences.caim@yahoo.com.

PROCEEDINGS

The Proceedings of the Conference will be published in ROMAI Journal. A selection of the papers will be published in Journal of Science and Arts. *Both journals will contain only the papers accepted after the reviewing process.*

Travel

Târgoviște is accessible by train, or by bus.

Train schedule <https://www.cfrcalatori.ro/>

Bus schedule <https://www.autogari.ro/Transport/Bucuresti-Targoviste>

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

Accommodation

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

<http://www.travel.ro/ro/>

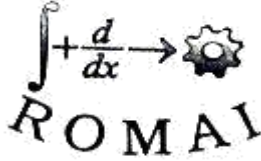
A limited number of rooms at low cost will be also available in one of the Students Hostel in the campus' university. Please mention in the Registration Form that will be sent to you after the acceptance of the abstract (see the section „Registration” above) if you want lodging in the Students Hostel.

Weather

In September weather is usually nice in Târgoviste, with temperatures between 15 and 25 Celsius degrees.

Contact

conferences.caim@yahoo.com (for sending the abstracts and registration),
caim2019@valahia.ro (for any problems concerning the local organizers).



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About 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. **“Valahia” University.** The beginnings of higher education in Târgoviște date back to the Romanian Middle Ages, when, between 1672 and 1678, the city hosted the first Law School of Wallachia.

Higher education resumed its mission in an official establishment after the 1989 Revolution, when, in 1991, the Technical and Economic University College opened its gates.

Higher education continued its mission in an official establishment after the 1989 Revolution, when, in 1991, the Technical and Economic University College opened its gates. Later on, following the Romanian Government Decision no. 288 / 01.06.1992, Valahia University of Târgoviște was created. The creation of this university naturally belongs to the concept of development of regional universities, a common practice in the main European and North-American States.

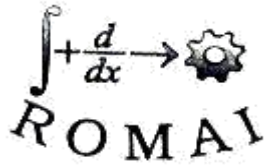
While at its creation Valahia University of Târgoviște was made up of 2 faculties, a university college, 14 higher education specializations and about 700 students, during the academic years its structure has diversified harmoniously in agreement to the socioeconomic needs, to the demands of the labor market, so that, today, Valahia University Târgoviște includes 10 faculties (Bachelor Degree - 3 or 4 years), 35 higher education specializations, 34 master programs and 6 fields of doctoral studies, a teacher pre-service and in-service training sector and a distance learning department. Right now, 10,000 students receive tuition at Valahia University of Târgoviște, being competently guided by over 400 academics in adequately equipped departments.

Beside its scientific training and research, Valahia University of Târgoviște includes continuing education centres in agreement to the demands of the present socioeconomic environment.

Our institution provides adequate social conditions (hostels, canteen, club, sports facilities, etc.) and at present the new university campus, part of the university’s patrimony, is being completed. The main concern of Valahia University of Târgoviște is the optimal accomplishment of its mission: high-quality scientific training and research, excellent study and life conditions for its students, professional integration at the national level, and European and international academic relations. More information at www.valahia.ro.

Institute of Multidisciplinary Research for Science and Technology from Valahia University of Târgoviște, with acronym ICSTM-UVT is an independent professional organization, apolitical and non-governmental, with UVT juridical dependence, that aims to bring together the university personnel and experts from different fields for accomplishment and implementation of national and international research and development projects and partnerships with different possible beneficiaries. The Electric Vehicles Research Centre (eMotion) is an essential component of a joint initiative at the level of Valahia University of Târgoviște and Târgoviște Municipality City Hall regarding the strategic area of sustainable development with real relevance and topicality subdomains, such as those of electric vehicles and distributed energy production. More information at <https://emotion.valahia.ro/en/about-us>.

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:



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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 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. Further information on the activity of AOȘR may be found at www.aosr.ro.