

ROMANIAN SOCIETY OF APPLIED AND INDUSTRIAL  
MATHEMATICS

[www.romai.ro](http://www.romai.ro)

- Romanian Society of Applied and Industrial Mathematics - ROMAI,
- “Babeş - Bolyai” University of Cluj-Napoca - UBB,
- "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

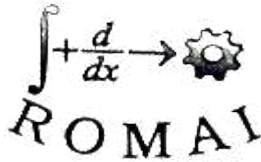
## THE 28th CONFERENCE ON APPLIED AND INDUSTRIAL MATHEMATICS CAIM 2020

The Romanian Society of Applied and Industrial Mathematics (ROMAI), “Babeş - Bolyai” University of Cluj-Napoca, “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 28th Conference on Applied and Industrial Mathematics - CAIM 2020.

**The Conference will be held at “Babeş-Bolyai” University of Cluj-Napoca, Romania, between 17 and 20 of September 2020.**

### Objectives of CAIM 2020

CAIM 2020 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 2020 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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## 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.

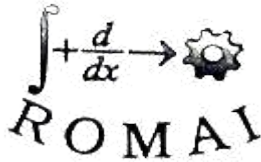
## Scientific Committee

Acad. Radu MIRON (Iași),  
Acad. Marius IOSIFESCU (Bucharest),

Acad. Mitrofan CIOBANU (Chișinău),  
Acad. Ioan TOMESCU (Bucharest),

Octavian AGRATINI (Cluj-Napoca),  
Anca ANDREICA (Cluj-Napoca),  
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),  
Gabriela MARINOSCHI (Bucharest),  
Andrei MOROIANU (Paris),  
Sergiu MOROIANU (Bucharest),

Costică MOROȘANU (Iași),  
Lidia PALESE (Bari),  
Titus PETRILA (Cluj-Napoca),  
Adrian PETRUȘEL (Cluj-Napoca),  
Horia F POP (Cluj-Napoca),  
Mihail POPA (Chișinău),  
Vasile POSTOLICĂ (Bacău),  
Dana CONSTANTINESCU (Craiova),  
Anca CROITORU (Iași),  
Ion CRĂCIUN (Iași),  
Rodica CURTU (Iowa),  
Gabriel DIMITRIU (Iași),  
Irinel DRAGAN (Texas, USA),



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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),  
Constantin POPA (Constanța),  
Liliana RESTUCCIA (Messina),  
Bianca SATCO (Suceava),  
Dana SCHLOMIUK (Montreal),

Anna SOOS (Cluj-Napoca),  
Ioan STANCU MINASIAN (Bucharest),  
Mihaela STERPU (Craiova),  
Mirela ȘTEFĂNESCU (Constanța),  
Kiyoyuki TCHIZAWA (Tokyo),  
Dan TIBA (Bucharest),  
Ioan TODINCĂ (Orléans),  
Catalin TRENCEA (Pittsburgh, USA),  
Mihai TURINICI (Iași),  
Rodica TUDORACHE (Iasi),  
Nicolae VULPE (Chișinău),  
Gheorghită ZBĂGANU (Bucharest).

## Organizing Committee

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

**Vice-president** Horia F POP ("Babeș - Bolyai" University, Cluj-Napoca)

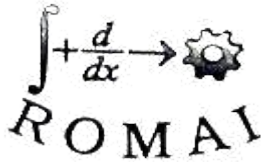
**Members:** Mitrofan CIOBANU (Vice-president of ROMAI, Chișinău)  
Călin Ion GHEORGHIU (Vice-president of ROMAI, ICTP, Cluj)  
Stelian ION (Secretary of ROMAI, ISMMA, Bucharest)  
Anca Veronica ION (ISMMA, Bucharest)  
Carmen ROCȘOREANU (Vice-president of ROMAI, Univ. of Craiova)  
Roth AGOSTON ("Babeș - Bolyai" University, Cluj-Napoca)  
Teodor GROSAN ("Babeș - Bolyai" University, Cluj-Napoca)  
Marcel ȘERBAN ("Babeș - Bolyai" University, Cluj-Napoca)

## Location

CAIM 2020 will take place at the "Babeș - Bolyai" University, Cluj-Napoca,  
Address: Mihail Kogălniceanu 1, Cluj-Napoca, 400084, Romania

**Web:** <https://www.ubbcluj.ro>

**Tel:** +40 264 405 300; **Fax:** +40 264 591 906; **Email:** [contact@ubbcluj.ro](mailto:contact@ubbcluj.ro)



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## CAIM 2020 Preliminary Program

**September 17, 2020**

**14.00 – 20.00 – Registration at** Conference room, Universitas Student House,  
Pandurilor Street, No. 7, **Cluj-Napoca**

**September 18, 2020**

**Registration; Opening Ceremony at** Conference room, Universitas Student House,  
Pandurilor Street, No. 7, **Cluj-Napoca**

**Works of the Conference, symposium**

**September 19, 2020**

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

**September 20, 2020**

**Excursion; Departure of participants.**

## Registration

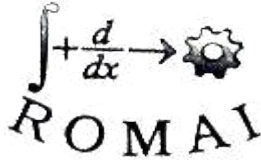
The authors are kindly asked to send the abstracts of their works to the email address [conferences.caim@yahoo.com](mailto:conferences.caim@yahoo.com).

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](mailto: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.



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## 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 17-20**

## 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](mailto:conferences.caim@yahoo.com).

### PROCEEDINGS

The Proceedings of the Conference will be published in ROMAI Journal. Only the papers accepted after the reviewing process will be published.

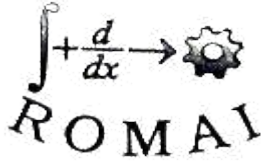
## Travel

Cluj-Napoca is accessible by train or by bus.

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

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

Website for hotels: <http://www.travelro.ro/hoteluri-cluj-napoca.html>



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## Accommodation

The participants should make a reservation at one of the hotels at the webpage: <http://www.travelro.ro/hoteluri-cluj-napoca.html>

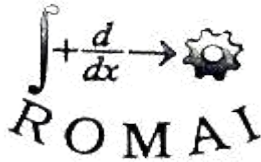
A limited number of rooms will be also available in one of the Students House in the “Prof. PhD Iuliu Hatieganu” University Sports Park: “*Sport XXI*” - tel. 0264/405300 (10 rooms) and “*Universitas*” - tel. 0264/429788 (5 rooms). Please mention in the Registration Form that will be sent to you after the acceptance of the abstract (see the section „Registration” above) if you want lodging in the Students House.

## Weather

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

## Contact

[conferences.caim@yahoo.com](mailto:conferences.caim@yahoo.com) (for sending the abstracts and registration),  
[caim2020@ubbcluj.ro](mailto:caim2020@ubbcluj.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](http://www.romai.ro)

2. **“Babeş-Bolyai” University.** The **Babeş-Bolyai University**, commonly known by its abbreviation, **UBB**, is a public university in [Cluj-Napoca, Romania](#). With more than 41,000 students in 2015, it is the largest university in the country. The Babeş-Bolyai University offers study programs in *Romanian, Hungarian, German, English, and French*. The university was named after two prominent scientists from [Transylvania](#), the Romanian bacteriologist [Victor Babeş](#) and the Hungarian mathematician [János Bolyai](#). It is one of the five members of the *Universitaria Consortium* (the group of elite Romanian universities). Further information may be found at [https://en.wikipedia.org/wiki/Babeş-Bolyai\\_University](https://en.wikipedia.org/wiki/Babeş-Bolyai_University)

### 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 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. Further information on the activity of AOŞR may be found at [www.aosr.ro](http://www.aosr.ro)