

# 9<sup>th</sup> International Workshop on Numerical Modelling in Aerospace Sciences



Romanian Space Agency  
ROSA



INCAS - National Institute for Aerospace Research "Elie Carafoli"  
(under the Aegis of the Romanian Academy)



"Politehnica" University of Bucharest  
UPB

## "NMMAS 2023"

10 - 11 MAY 2023 | BUCHAREST, ROMANIA

### FIRST CALL

The 9<sup>th</sup> NMMAS 2023 Workshop will be held in Bucharest, at INCAS, 220 Iuliu Maniu Blvd., sector 6, Bucharest  
More information at: [www.incas.ro](http://www.incas.ro)



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**To the Participants:** Professors, engineers, researchers and interested students are invited to participate in the 9<sup>th</sup> International Workshop on Numerical Modelling in Aerospace Sciences 2023.

This 2 days of workshop focuses on numerical simulations and their application in aerospace sciences both in launcher and satellite design and construction. Presentations from both academia as well as industrial partners will be given.

This workshop is organized by **Romanian Space Agency (ROSA)**, **INCAS - National Institute for Aerospace Research "Elie Carafoli"** and **POLITEHNICA University of Bucharest**.

## WORKSHOP TOPICS

- 1 - Launchers propulsion technologies and simulations of rocket engines
- 2 - Flight dynamics simulation
- 3 - Modelling of structural problems in aerospace airframes
- 4 - System design for small satellites.

## Event associated with the workshop

- Exhibition: aerospace and defense industry

## DEADLINES

- **Abstracts submission: 24 April 2023**

Abstracts will be written in **English**, (will have a minimum of 200 words or if they are "Extended Abstracts", a maximum of 4 pages, drawn up in MS Word, Times New Roman, 10 pt) and they will be published in the Book of Abstracts. The participants in the workshop are asked to send the paper title, abstract and author affiliation (institution name, address, e-mail, phone number) to the following e-mail address:

nebancea.elena@incas.ro; florin.mingireanu@rosa.ro

- The deadline for the notification of **accepted abstracts: 27 April, 2023**
- **Full paper** should be submitted by **10 May, 2023**. Send by e-mail: nebancea.elena@incas.ro

**Note:** the authors should have the final full paper document (.doc / .docx or .pdf) available at the latest before their presentation. The final full paper and the presentation will be handed over to the chairman.

From 2018, "NMAS" strictly implements the policy: *no paper, no presentation*.

## REGISTRATION FEE

- Regular fee - **100 RON**
- Student fee - **Free**

The fee is payable **in cash** at the Workshop registration on **11 May, 2023**

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○ The papers presented at the Workshop "NMAS 2023" will be recorded on the DVD dedicated to the event under the heading: The 9<sup>th</sup> International Workshop on Numerical Modelling in Aerospace Sciences, code: ISSN 2360-1809, ISSN-L 2360-1809. Presentations will be published in English in Power Point, Word or PDF.

○ Selected papers will be published in the scientific journal **INCAS BULLETIN**: <http://bulletin.incas.ro> (Print) ISSN 2066-8201, (Online) ISSN 2247-4528, ISSN-L 2066-8201, DOI: 10.13111/2066-8201.

**INCAS BULLETIN** is **Open Access (OA)**.

**INCAS BULLETIN** is indexed in **International Databases (BDI)**: Directory of Open Access Journals (DOAJ), Index Copernicus™ - Journals Master List, Crossref, ProQuest, EBSCOhost, Academic Journals Database, SCPIO - Romanian Editorial Platform, China National Knowledge Infrastructure (CNKI-SCHOLAR), SHERPA/ROMEO, WorldCat, J-Gate and more.

## ORGANIZERS

○ **INCAS - National Institute for Aerospace Research "Elie Carafoli"** ([www.incas.ro](http://www.incas.ro)) is the leading research establishment in aerospace sciences in Romania, with more than 70 years tradition in aerospace engineering, flow physics and applied aerodynamics, using state-of-the-art technologies and unique infrastructure of national strategic importance. INCAS has been involved in all major national aeronautical projects for civil and military areas, and currently is acting as a major player in EU policy for R&D development under FlightPath 2050 vision and future Horizon Europe program.

President and General Director  
Ph.D. Eng. Catalin NAE

○ **Romanian Space Agency - ROSA** ([www.rosa.ro](http://www.rosa.ro)) was established in 1991 and reorganized by a Government Decision in 1995 as an independent public institution under the auspices of the Ministry of Research and Technology (actually, the Ministry of Education, Research, Youth and Sport). ROSA is the national co-ordinating body of the space activities.

The missions of ROSA are to promote and coordinate development and national efforts in the field, and, as a Government representative, to promote international cooperation. In particular, ROSA is authorized to establish research and development centres oriented on specific objectives of the Romanian Space Programme.

The President of ROSA is Ph.D. Eng. Flaviu RADUCANU,

The Honor President is the Romanian cosmonaut Mr. Ph.D. Eng. Dumitru Dorin PRUNARIU.

○ **POLITEHNICA University Bucharest - UPB** ([www.upb.ro/en](http://www.upb.ro/en)) is the largest and the oldest technical university in the country and among the most prestigious universities in Romania.

The tradition of our institution, developed in over 190 years through the effort of the most important nation's schoolmasters and of the generations of students, is not the only convincing reason. Today, the POLITEHNICA University of Bucharest is undergoing a continuous modernization process, being involved in a permanent dialogue with great universities in Europe and all over the world.

The mission of the POLITEHNICA University of Bucharest has been thought over as a blend of education, research and innovation, which represents a key towards a knowledge-based society and economy. Creating knowledge mainly by scientific research, giving it out by education and professional training, disseminating it by information technologies, as well as the use of technological innovation are elements that define the university distinctive profile.

Dean of Faculty of Aerospace Engineering is Prof. Ph.D. Eng. Daniel-Eugeniu CRUNTEANU.

## PARTNER IN SUPPORT OF THE EVENT

**Chateau Vartely**; <https://www.youtube.com/watch?v=uOGJymUfB90>

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## PROGRAMME COMMITTEE

- Ph.D. Ruxandra BOTEZ, École de Technologie Supérieure, Université de Québec, Montreal, Canada
- Ph.D. John MICOL, NASA Ames, SUA
- Ph.D. Anders BLOM, Innovair, Swedich
- Ph.D. Richard DEGENHARDT, DLR, Germany
- Ph.D. Flaviu RADUCANU, ROSA - Romanian Space Agency, Bucharest, Romania
- Ph.D. Marius-Ioan PISO, ROSA - Romanian Space Agency, Bucharest, Romania
- Ph.D. Dumitru PRUNARIU, ROSA - Romanian Space Agency, Bucharest, Romania
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- Ph.D. Sterian DANAILA, POLITEHNICA University of Bucharest, Romania
- Ph.D. Octavian Thor PLETER, POLITEHNICA University of Bucharest, Romania
- Ph.D. Ion STROE, POLITEHNICA University of Bucharest, Romania

## ORGANIZING COMMITTEE

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- PR. Maria MOCANU, INCAS - National Institute for Aerospace Research "Elie Carafoli", Bucharest, Romania  
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- Prog. Elena NEBANCEA, INCAS - National Institute for Aerospace Research "Elie Carafoli", Bucharest, Romania  
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For all questions please feel free to contact the Organizing Committee by e-mail.

## SECRETARIAL STAFF

- Ph.D. Mihail BOTAN, INCAS - National Institute for Aerospace Research "Elie Carafoli", Bucharest, Romania
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## ACCOMODATION

Participants are responsible for their own accommodation but the organizers can provide assistance with reservation and obtain a special conference rate from the hotels.

We recommend the following hotels in the Bucharest area:

Hotel Ibis 4\*: <http://www.ibishotels.ro/hotel-ibis-bucuresti-gara-de-nord>

Hotel Euro Polizu 4\*: <http://www.euro-hotels.ro/gara-de-nord/despre-noi/>

## WORKSHOP VENUE

The workshop venue is located at **INCAS - National Institute for Aerospace Research "Elie Carafoli"**, Bd. Iuliu Maniu no. 220, sector 6.

The INCAS is located in the Militari district of Bucharest, near by the subway station "Pacii".

One can reach INCAS also using trolleybuses route 61, route 62 and buses route 137, route 138, route 178 and route 236 at Valea Cascadelor Station.

For more informations see [Route map](#) of Bucharest.



INCAS - National Institute for Aerospace Research "Elie Carafoli"



## CONTACT

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