



# ICOME & CARE 2024

## The Joint International Conference of the 7<sup>th</sup> International Conference on Mechanical Engineering (ICOME) and the 3<sup>rd</sup> International Conference on Advanced Research in Engineering (CARE)



MINISTERUL EDUCAȚIEI



Academia de Stiinte  
Tehnice din Romania  
Technical Sciences  
Academy of Romania

Craiova, Romania, October 17-19, 2024

*The aim of the conference is to provide a platform for researchers, engineers and PhD students involved in the general area of mechanical engineering and industrial engineering as well as robotics, mechatronics and interdisciplinary fields, to exchange their latest research results and exchange views on the future research directions of these fields.*

**Organized by**  
**University of Craiova**  
**Faculty of Mechanics**

### with organizing support of:

Ministry of Education, Romania  
ASTR – Technical Sciences Academy of Romania  
ARoTMM – Romanian Assoc. of Mechanism and Machine Science  
SIAR – Romanian Society of Automotive Engineers

### Conference Chairs

Ilie Dumitru  
Nicolae Dumitru  
Laurentiu Racila  
Adrian Sorin Rosca  
Daniela Tarnita.

### International Scientific Committee

Alexandru Catalin - Transilvania University of Brasov, Romania  
Atanasiu Costica – ASTR, Romania  
Balc Nicolae - Technical University of Cluj-Napoca, Romania  
Benga Gabriel - University of Craiova, Romania  
Bica Marin - University of Craiova, Romania  
Biris Stefan- Politehnica University of Bucharest, Romania  
Bizdoaca Nicu- University of Craiova, Romania  
Bratu Polidor – ASTR Romania  
Burada Cristian- University of Craiova, Romania  
Burnete Nicolae - Technical University of Cluj-Napoca, Romania  
Calbureanu Madalina - University of Craiova, Romania  
Chiru Anghel - Transilvania University of Brasov, Romania  
Clenci Adrian- University of Pitesti, Romania  
Copilusi Cristian- University of Craiova, Romania  
Craciunoiu Nicolae- University of Craiova, Romania  
Doicin Cristian Vasile - Politehnica University of Bucharest, Romania  
Doroftei Ioan – Ghe Asachi University of Iasi, Romania  
Dumitru Ilie - University of Craiova, Romania  
Dumitru Nicolae - University of Craiova, Romania  
Geonea Ionut- University of Craiova, Romania  
Gruionu Lucian - University of Craiova, Romania  
Iordachita Iulian - Johns Hopkins Whiting school of engineering, USA  
Jaliu Codruta - Transilvania University of Brasov, Romania  
Lovasw Erwin – University Politehnica of Timisoara  
Marghitu Dan- Auburn University, USA  
Marin Mihnea - University of Craiova, Romania  
Mereuta Elena - „Dunarea de Jos” University of Galati, Romania  
Nastasescu Vasile – ASTR, Romania  
Neagoe Mircea - Transilvania University of Brasov, Romania  
Pisla Doina - Technical University of Cluj-Napoca, Romania  
Racila Laurentiu- University of Craiova, Romania  
Rosca Adrian Sorin- University of Craiova, Romania  
Rusu Eugen - „Dunarea de Jos” University of Galati, Romania  
Savu Danut - University of Craiova, Romania  
Savu Sorin - University of Craiova, Romania  
Saracin Ion - University of Craiova, Romania  
Scutelnicu Elena - „Dunarea de Jos” University of Galati, Romania  
Selisteanu Dan - University of Craiova, Romania  
Stan Cornel – West Saxon University of Zwickau, Germany  
Stanescu Marius - University of Craiova, Romania  
Tabacu Stefan- University of Pitesti, Romania

Tarnita Daniela - University of Craiova, Romania  
Vaida Calin - Technical University of Cluj-Napoca, Romania  
Vladut Valentin – INMA, Bucharest, Romania  
Vlase Sorin – Transilvania University of Brasov, ASTR Romania

### Topics

- Advanced processing technologies in industrial engineering
- Applied Thermodynamics, Heat Transfer. Thermal Systems
- Automotive. Engine and Transmission. Road Safety
- Biomechanics
- Biomedical engineering
- Computer-aided design and manufacturing
- Experimental mechanics
- Mechanisms and Machines Design
- Mechatronics
- Modeling and simulation in mechanical engineering
- Robotics
- Modeling, analysis and simulation of the manufacturing processes
- Technology and engineering management
- Civil engineering

### Important Dates

- June 1, 2024- Full paper submission
- June 25, 2024– Notification of acceptance
- July 15, 2024- Submissions of final paper

### Local Organising Committee

Ilie Dumitru, Nicolae Dumitru, Daniela Tarnita, Adrian Sorin Roșca  
Nicolae Craciunoiu, Cristian Burada, Cristian Copilusi, Laurentiu Racila, Ionut Geonea  
Gabriel Benga, Danut Savu, Sorin Savu, Lucian Matei, Gabriela Marinache

### Venue

The Conference will be held at the University of Craiova, Craiova is a university city located in south -west of Romania and accessible from all European countries by plane, train, or car.

**Social programs** for delegates will be organized.

### Registration Fee

200 Euro- for regular papers  
100 Euro – for PhD students  
130 Euro – for accompanying persons

### Presentation and Publication

The official language of the conference is English. Each paper will be reviewed, and the papers selected by the Scientific Committee will be published in a conference proceeding. The best papers will be selected and recommended for publication in journals indexed in international databases.

For detailed up-to-date information, please visit the conference website:

Website: <http://mecanica.ucv.ro/CARE2024/>

### Correspondence address

Prof.dr.eng. Daniela Tarnita  
Faculty of Mechanics,  
University of Craiova  
Email: [conference.mechanics@ucv.ro](mailto:conference.mechanics@ucv.ro)