



# CARE 2020

## 1<sup>st</sup> International Conference on Advanced Research in Engineering



October 30, 2020  
Craiova, Romania

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  
IOSUD – University of Craiova  
Doctoral School "Acad. Radu Voinea"

#### Conference Chairs

Daniela Tarnita  
Nicolae Dumitru

#### International Scientific Committee

Alexandru Catalin - Transilvania University of Brasov, Romania  
Balc Nicolae - Technical University of Cluj-Napoca, Romania  
Benga Gabriel - University of Craiova, Romania  
Bica Marin - University of Craiova, Romania  
Bizdoaca Nicu - University of Craiova, Romania  
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Dumitru Nicolae - University of Craiova, Romania  
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Marghitu Dan - Auburn University, USA  
Marin Mihnea - University of Craiova, Romania  
Mereuta Elena - „Dunarea de Jos” University of Galati, Romania  
Paraschiv Gigel - Politehnica University of Bucharest, Romania  
Pires Ines – Technical University of Lisbon, Portugal  
Pisla Doina - Technical University of Cluj-Napoca, Romania  
Rusu Eugen - „Dunarea de Jos” University of Galati, Romania  
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Saracin Ion - University of Craiova, Romania  
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Selisteanu Dan - University of Craiova, Romania  
Stan Cornel – West Saxon University of Zwickau, Germany  
Stanescu Marius - University of Craiova, Romania  
Tabacu Ion - University of Pitesti, Romania  
Tarnita Daniela - University of Craiova, Romania  
Vaida Calin - Technical University of Cluj-Napoca, Romania

#### Keynote speakers

Iulian Iordachita - *Johns Hopkins University, USA*  
Dan Marghitu - *Auburn University, USA*  
Ines Peres - *Technical University of Lisbon, Portugal*  
Doina Pisla, *Technical University of Cluj Napoca, Romania*  
Cornel Stan - *West Saxon University of Zwickau, Germany*  
Corina Tarnita – *Princeton University, USA*

#### 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

#### Important Dates

- July 15, 2020- Abstract submission
- September 5, 2020 – Full paper submission
- September 25, 2020 – Notification of acceptance
- October 4, 2020- Submissions of final paper

#### Local Organising Committee

Tarnita Daniela, Dumitru Nicolae  
Dumitru Ilie, Savu Danut  
Marinache Gabriela, Oncescu Alin

#### 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.

#### Correspondence address

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