

CIRP (College International pour la Recherche en Productique) is the world leading organisation in production engineering research and is at the forefront of design, optimisation, control and management of processes, machines and systems. The Academy has restricted membership based on demonstrated excellence in research and has some 600 academic and industrial members from 50 industrialised countries.

Young researchers, whose research contribution in the area of production and manufacturing science has been deemed significant, can be officially nominated as CIRP Research Affiliates. The objective of the Research Affiliates programme is to create, develop, and promote a sustainable, CIRP-related, network of outstanding young researchers in the field of production engineering.

The CIRP Global Web Conference – CIRPe is an initiative of the CIRP Research Affiliates and aims to involve scientists, researchers and engineers from all over the world to promote discussion on the latest achievements in Manufacturing and Production Engineering.

Conference theme

The theme of the 10th CIRP Global Web Conference – CIRPe 2022 is “Material aspects of manufacturing processes”. With regard to the cross-disciplinary structure of CIRP establishment, the contributions to the conference should be as domain-spanning and diverse as the theme itself. The contributions can include, but not limited to:

- Modelling and characterisation of materials including metals, polymers, ceramics and composites undergone different manufacturing processes such as cutting, grinding, forming, additive manufacturing and other conventional and non-conventional processes.
- Modelling and simulation of manufacturing processes with an aim to provide a better understanding of material behaviour and its impact on functionality of final products.
- Material handling and utilisation in production lines, design aspects, life-cycle engineering and assembly.

- Material aspects of product and process development.
- Process monitoring, signal processing and data analytics with emphasis on material utilisation.

Registration

CIRPe 2022 will take place online with paper presentations and interactive technical discussions broadcasted online in two parallel sessions between 13:00-18:00 CET. A registration fee applies for the publication of accepted papers in conference proceedings. Participation in conference is free of charge. All participants should register at the conference [homepage](#) to access the presentations.

Abstract and paper submission

Please submit your abstract (max. 300 words) by email to: cirpe2022@chalmers.se

The paper submission and review process will be managed through the Elsevier Editorial Manager. Please submit your full paper by selecting "SI: CIRPe 2022" as the article type in the submission steps on Editorial Manager. Paper submission guidelines and instructions can be found [here](#). The LaTeX and Word templates are provided in conference homepage. The submitted paper should not exceed 6 pages including figures, tables and references. Accepted papers will be published in [Procedia CIRP](#) (by Elsevier B.V.), indexed in EI Compendex and Scopus databases.

Organising committee chairs

Dr. Amir Malakizadi, Chalmers University of Technology
Prof. Peter Krajnik, Chalmers University of Technology
Dr. Danfang Chen, Volvo Group Trucks Operations

Scientific sponsors

Prof. Rikard Söderberg, Chalmers University of Technology
Adj. Prof. Helmi Attia, McGill University & Chalmers University of Technology
Adj. Prof. Rachid M'Saoubi, Lund University

Important dates and deadlines

| | |
|--------------------------|------------|
| Abstract submission | 2022-04-15 |
| Full paper submission | 2022-06-17 |
| Revised paper submission | 2022-08-05 |
| Camera-ready submission | 2022-09-05 |

Contact

cirpe2022@chalmers.se