



# CARV<sup>20</sup> MCPC<sup>20</sup>



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## Towards Sustainable Customization: Bridging Smart Products and Manufacturing Systems

November 2nd – 5th 2020  
Aalborg City University, Denmark

### Invitation

We have the honour of welcoming you to the beautiful city of Aalborg located in the northern part of Denmark for the 8th Changeable, Agile, Reconfigurable, and Virtual Production Conference (CARV2020) and the 10th World Mass Customization & Personalization Conference (MCPC2020).

For the first time, the CIRP sponsored CARV conference is hosted by Aalborg University, while MCPC is hosted by Aalborg University for the second time. We look forward to welcoming your research contributions to both conferences and to welcome you in Aalborg!



# Preliminary program

<b>Sunday</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>
November 1, 2020	November 2, 2020	November 3, 2020	November 4, 2020	November 5, 2020
Welcome reception.	Opening session, academic and industrial keynotes, parallel sessions, Aalborg city welcome reception at Utzon Center.	Academic and industrial keynotes, parallel sessions, conference dinner at Musikkens Hus.	Academic and industrial keynotes, parallel sessions, closing session, closing ceremony.	Industry tour.

## Scope and topics

The theme of the conference is “Towards Sustainable Customization: Bridging Smart Products and Manufacturing Systems”.

Topics covered in the conference are:

### CARV2020

- Manufacturing systems design, planning, operation and control
- Changeability, flexibility and re-configurability
- Sustainability, de-manufacturing and re-manufacturing
- Global production systems and co-operation within global networks
- Rapid product/process prototyping, development and ramp-up
- Virtual, digital and smart factories
- Innovating for smart production
- Product/process co-evolution
- Development of services and product service systems
- Human-machine interaction and smart automation
- Learning factories and smart labs

### MCPC2020

- Smart products, services and product-service systems
- Digital business models for mass customization
- Sustainability, circular economy and mass customization
- Success factors and best practice
- Key insights from industry in mass customization pioneers
- Managing variety, product/service platforms and families
- Open innovation and customer co-creation
- Choice navigation and configuration management
- Data driven approaches for mass customization



# Special sessions

A number of special sessions have already been planned, and authors are welcome to submit papers to these. For detailed descriptions of special session content, please see conference website.

- Variety and complexity management in the era of industry 4.0
- Multi-modal logistics
- Transforming traditional production systems into smart production systems
- Deep learning
- Industrial applications of circular economy

Additional proposals for special session topics must be submitted before December 31, 2019 in order to be included in the conference programme. Please send a title, a 100-200 word description, and a contact person of the special session to [info@carv2020.com](mailto:info@carv2020.com) or [info@mcpc2020.com](mailto:info@mcpc2020.com).

# Industry session

In addition to the above special sessions, a session centred around the latest insights from industry is planned. Interested parties from industry are encouraged to contact Associate Professor Kjeld Nielsen at [kni@mp.aau.dk](mailto:kni@mp.aau.dk) for more information.

# Author instructions

Authors from academia and industry are invited to submit original scientific contributions to the conference. Conference proceedings will be published in Springer Lecture Notes in Mechanical Engineering, indexed by Scopus. Conference proceedings are also submitted for indexing by Web of Science.

All abstracts and submitted full papers will be peer reviewed by an international scientific committee. The abstract should give an outline of the final paper, indicating the motivation, contribution, and relevance. Please indicate when uploading abstract, if presentation in a special session is preferred.

Full manuscripts should be a max. of 8 pages include an abstract of 100-200 words and provide 5 keywords related to the conference topics.

Word and LaTeX templates for manuscript preparation will be available on conference website.

At least one author per paper needs to be registered for the conference during upload of camera-ready versions.

# Important dates





## **Venue, accommodation and travel information**

The venue of the conference is Aalborg University City Campus, which is located in the city centre of Aalborg in near proximity to hotels, restaurants, and shopping. The Aalborg city welcome reception on November 2, 2020 (hosted in Utzon Center) and conference dinner on November 3, 2020 (hosted in Musikkens Hus) will be located in the city centre close to the conference venue.

For conference participants, a number of rooms have been reserved at a selection of city hotels with a 2-10 minutes' walk to the conference venue. Information on hotel options, rooms, and prices will be updated on the conference website. Hotel rooms can be booked together with conference registration.

Aalborg city is easily accessible with Aalborg Airport (AAL) being only a 15-minutes' drive away from the city centre. Flights between Aalborg Airport and Copenhagen or Amsterdam connect Aalborg to most European and international cities. We have partnered with KLM/Air France to secure attendees attractive discounts of up to -15% on a wide range of public fares on all Air France, KLM and their code-shared flights worldwide.

## **Contact information**

Inquiries concerning the conference can be made to [info@carv2020.com](mailto:info@carv2020.com) or [info@mcpc2020.com](mailto:info@mcpc2020.com).

## **Registration**

More information about registration and conference fees will be available on the conference website.

# Committees

## Local organizing committee

- Assistant Prof. Ann-Louise Andersen (Denmark)
- Assistant Prof. Kjeld Nielsen (Denmark)
- Assistant Prof. Thomas Ditlev Brunoe (Denmark)
- Maria Støttrup Schiønning Larsen (Denmark)
- Rasmus Andersen (Denmark)

## CARV2020

### Conference chair

- Assistant Prof. Ann-Louise Andersen

### Honorary co-chairs

- Prof. Hoda ElMaraghy (Canada)
- Prof. Waguih ElMaraghy (Canada)
- Prof. Michael Záh (Germany)

### International program committee

- Associate Prof. Catherine Da Cunha (France)
- Associate Prof. Khaled Medini (France)
- Associate Prof. Carin Rösiö (Sweden)
- Prof. Mats Jackson (Sweden)
- Assistant Prof. Tehseen Aslam (Sweden)
- Associate Prof. Arne Billberg (Denmark)
- Prof. Ole Madsen (Denmark)
- Associate Prof. Simon Bøgh (Denmark)
- Prof. Stefan Wiesner (Germany)
- Prof. Charles Møller (Denmark)

### International scientific committee

- Prof. ElMaraghy, H.A. (Canada)
- Prof. ElMaraghy, W.H. (Canada)
- Prof. Záh, M. (Germany)
- Prof. Bernard, A. (France)
- Prof. Gronau, N. (Germany)
- Prof. Matt, D. (Italy)
- Prof. Newman, S. (UK)
- Prof. Nyhuis, P. (Germany)
- Prof. Park, H.-S. (South-Korea)
- Prof. Schönsleben, P. (Switzerland)
- Prof. Sihn, W. (Austria)
- Prof. Söderberg, R. (Sweden)
- Prof. Tracht, K. (Germany)
- Prof. Vancza, J. (Hungary)
- Prof. Lanza, G. (Germany)
- Prof. Benyoucef, L. (France)
- Prof. Bortolini, M. (Italy)

## MCPC2020

### Conference chair

- Associate Prof. Kjeld Nielsen (Denmark)

### Honorary co-chairs

- Prof. Frank Piller (Germany)
- B Joseph Pine (United States)

### International program committee

- Stephan Hankammer (Germany)
- Associate Prof. Margherita Pero (Italy)
- Associate Prof. Astrid Heidemann Lassen (Denmark)
- Prof. Brian Vejrum Wæhrens (Denmark)
- Associate Prof. Peter Nielsen (Denmark)

### International scientific committee

- Prof. Jocelyn Bellemare (Canada)
- Prof. Fabrizio Salvador (Spain)
- Prof. Niels Henrik Mortensen (Denmark)
- Prof. Lars Hvam (Denmark)
- Prof. Zoran Anisic (Serbia)
- Sen. Res. Lars Skjelstad (Norway)
- Prof. Goran Stojanovic (Serbia)
- Prof. Thorsten Blecker (Germany)
- Dr. Herwig Schreiner (Germany)
- Prof. Ulrich Berger (Germany)
- Prof. Kristina Säfsten (Sweden)
- Prof. Claudio Boer (Switzerland)
- Associate Prof. Frances Turner (United States)
- Prof. Volker Skwarek (Germany)
- Sen. Res. Maria Kollberg Thomassen (Norway)
- Prof. Frank Piller (Germany)

More details and registration at:

**carv2020.com** and **mcpc2020.com**

