

“New Paradigms for Anticipated Uncertainty”

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CARV 2025

10th Changeable, Agile, Reconfigurable and Virtual Production Conference

Call for Papers

9.-12. September 2025 in Siegen, Germany

The conference offers a setting for experts from academia, industry and research institutes alike to discuss and exchange the latest scientific contributions in production technology. All conference papers will be peer-reviewed by experts in the field and published open-access in the Springer Lecture Notes in Mechanical Engineering (LMNE).

The CARV 2025 conference is sponsored by the International Academy for Production Engineering (CIRP).

Topics



Manufacturing systems design, planning, operation and control



Virtual, digital and resilient production



Changeability, agility, flexibility and reconfigurability



Production layout and assembly workplace design



Sustainability, de-manufacturing and re-manufacturing



Product/process co-evolution



Global production systems and co-operation within global networks



Development of services and product service systems



Additive manufacturing for smart production



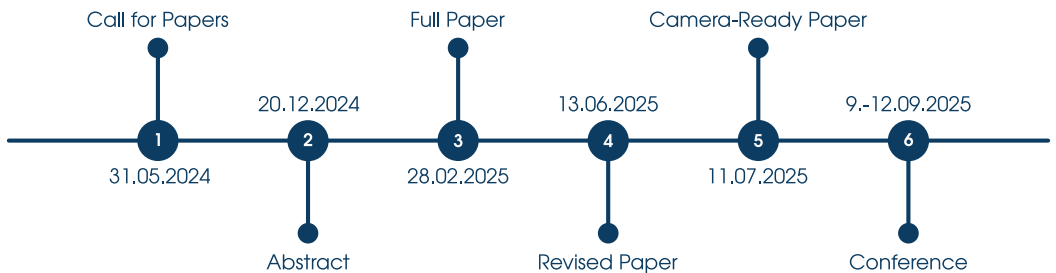
Human-machine interaction, robotics and sensor integration



Rapid product/process prototyping, development and ramp-up



Learning factories and smart labs



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New Paradigms for Anticipated Uncertainty

The manufacturing industry and its supply chains are often faced with global disruptions, resulting in an increase in uncertainty. To overcome these challenges, it is imperative that we create new paradigms that promote greater resilience and enable opportunities and possibilities for innovation from both a technical and organisational perspective. By doing so, we can ensure that the industry remains competitive and continues to thrive despite adversity.

Conference Venue

Nestled in the heart of Germany, Siegen's history is etched in iron and steel. Once a hub of ore mining and iron extraction, it has transformed into a haven for innovation. Over 150 hidden champions, not driven by an OEM, now thrive here, shaping the production technology, constantly adapt to stay ahead. Just like Siegen's story, which is one of resilience, evolution, and success.



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Prof. Martin Manns, Germany

Honorary Co-chairs

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