

# DET 2014

The 8<sup>th</sup> International Conference  
on Digital Enterprise Technology

FIRST ANNOUNCEMENT AND CALL FOR PAPERS

## DISRUPTIVE INNOVATION IN MANUFACTURING ENGINEERING TOWARDS THE 4<sup>TH</sup> INDUSTRIAL REVOLUTION

March 25 – 28, 2014 Stuttgart, Germany



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## SCOPE

Under the sponsoring of the International Academy for Production Engineering (CIRP) the Fraunhofer Institute for Industrial Engineering (IAO) in Stuttgart, in partnership with the University of Bath, is honoured to invite you to attend the 8<sup>th</sup> International Conference on Digital Enterprise Technology – DET 2014. The guiding idea of the conference is to find a common understanding of employing the Digital Enterprise Technologies as **“Disruptive Innovation in Manufacturing Engineering towards the 4<sup>th</sup> Industrial Revolution”**.

Digital Enterprise Technology (DET) is “the collection of systems and methods for the digital modeling, simulation and optimization of the collaborative product development, factory and manufacturing processes planning, along their lifecycle.” The main aim of DET 2014 is to provide an international forum for the exchange of leading edge scientific knowledge and industrial experience, regarding the development and integration of the various aspects of Digital Enterprise Technologies, as disruptive technologies of the 4<sup>th</sup> Industrial Revolution.

## SCIENTIFIC TOPICS

The CIRP sponsored DET 2014 conference focusses on the employment of modern ICT-technologies and tools for the modeling, simulation, optimization, control and monitoring, visualization of products, factories and manufacturing processes. The addressed areas cover all phases of product, factory and manufacturing

processes life cycle starting with product design and development, engineering of factories, machines, equipment and technical processes, commissioning and rump-up, followed by manufacturing operations, maintenance and facility management up to products recycling/re-use, factory overhaul and environmentally friendly dismantling.

## LIST OF SCIENTIFIC CONFERENCE AREAS

### Product & Process

Product Design Modelling and Visualisation, Manufacturing Process Modelling and Simulation, Collaborative Engineering and Manufacturing, Rapid Manufacturing, Reverse Engineering

### Factory

Virtual Factory, Digital Factory, Cyber-Physical Systems, Smart Factory, Factory Automation and Control

### Systems, IT & Interoperability

Systems Communication and Interoperability, IT-based Product-Service Systems, Service oriented and Cloud-based Environments

### Life Cycle

Product, Process and Factory Life Cycle Management

## INDUSTRY DAY

To bridge the gap between industry and academia, the CIRP DET will dedicate the first day of the Conference to hear the voice of industry regarding “Digital Enterprise Technologies – Status Quo and Quo Vadis?” by organizing interdisciplinary dialogues between industry, technology providers and academia.



## BEST PAPER AWARD & YOUNG SCIENTIST AWARD

Best papers will be awarded in each of the above-mentioned conference areas by an international jury. The best 5 papers among young research associates (younger than 35) will be awarded.

## CHAIRMAN

Prof. Dr.-Ing. Dieter Spath, Fraunhofer IAO, Germany

## CO-CHAIRS

Dr.-Ing. Carmen Constantinescu, Fraunhofer IAO, Germany

Prof. Paul Maropoulos, University of Bath, UK

Dr.-Ing. Olaf Sauer, Fraunhofer IOSB, Germany

## LOCAL ORGANISING COMMITTEE

by Fraunhofer IAO, Stuttgart and University of Stuttgart

Prof. Dr.-Ing. Wilhelm Bauer

Dr.-Ing. Manfred Dangelmaier

Dr.-Ing. Rolf Ilg

Isabella R. Jesemann M.A., M.A.

Dipl.-Ing. Joachim Lentes

Dr.-Ing. Sebastian Schlund

Dr.-Ing. Frank Wagner

Prof. Dr.-Ing. Joachim Warschat

Prof. Dr.-Ing. habil. Anette Weisbecker

## CONFERENCE LANGUAGE

The conference language is English.

## IMPORTANT DATES

### Invitation to Submit Abstracts

Abstracts must include the Paper Title, Authors, Keywords and 300 words

**From Now to**

**15<sup>th</sup> July 2013**

### Notification of Abstract Acceptance **1<sup>st</sup> August 2013**

Authors, whose abstracts meet the review criteria, will receive an invitation to submit a full-length paper, with instructions for the final preparation of the manuscript.

### Text about papers

Full Paper Submission by:

**15<sup>th</sup> November 2013**

Notification of Paper Acceptance:

**15<sup>th</sup> December 2013**

Final Manuscript Due:

**1<sup>st</sup> February 2014**

## PUBLICATION POLICY

All papers will be published in the Conference CD Proceedings and an Abstracts Booklet (with ISBN) will be handed out to delegates during Registration. Enhanced versions of selected papers will be considered for publication, after full Journal review, in Special Editions of the following leading Journals:

- International Journal of Computer Integrated Manufacturing
- Proceedings of IMechE, Part B: Journal of Engineering Manufacture
- CIRP Journal of Manufacturing Science and Technology



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## SUBMISSION ADDRESS

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## LOCATION

The conference will take place in Stuttgart, the capital city of Baden-Württemberg in southwest Germany – world-renowned for its automotive and manufacturing engineering industry as well as for its beautiful landscapes, historic cities and various cultural amenities.

## IN CO-OPERATION WITH



**FpF**  
Verein zur Förderung  
produktionstechnischer Forschung e.V., Stuttgart



## VENUE

The conferences will be held at the Fraunhofer Center for Virtual Engineering (ZVE), Nobelstr. 12, 70569 Stuttgart, Germany. The venue is located at the Fraunhofer Institute Center 15 km west of the Stuttgart International Airport (STR) and 15 km south of the city center of Stuttgart.

## SOCIAL PROGRAM

The social program will include a reception, a banquet and a special spouse program.

## INFORMATION

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Event Management  
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[DET2014@iao.fraunhofer.de](mailto:DET2014@iao.fraunhofer.de)

## FEES

Regular attendance fee	650 €
Master students and retired scientists	350 €
Early birds (before 1 <sup>st</sup> November, 2013)	550 €

## ACCOMMODATION

A block of rooms for special rates will be reserved at the Park Inn Hotel and in the nearby located Ibis Hotel for the conference participants. For more information please contact the event management.

### Park Inn by Radisson Stuttgart Hotel

Hauptstaetter Strasse 147, 70178 Stuttgart, Germany  
Phone: +49 711 320 94 0  
Fax: +49 711 320 94 10  
[info.stuttgart@rezidorparkinn.com](mailto:info.stuttgart@rezidorparkinn.com)

### Ibis Stuttgart Centrum

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