



International Conference on Computers & Industrial Engineering CIE45



Call for papers -- Special Session on: Virtual product development for CIE45 October 28-30, 2015 - Metz, France

Session chair

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Session description

This session is supporting by the WG IS3C of the GdR MACS (French Research Group).

Product engineering processes cover all operations for the development, manufacturing, use, servicing and disposal of products. Product development manages the creation of the product itself, under the consideration of different boundary conditions. In this way, product development processes include all of the operations necessary to bring a new product to market. Virtual product development includes all IT-supported, virtual product-model-based processes for the generation of a new product. Virtual product models are used to perform optimization and testing procedures in a virtual environment with the goal of saving development time and costs, while simultaneously increasing the product quality. Depending on the different requirements and characteristics of diverse disciplines, both the virtual models and the results generated can differ significantly. Depending on the categories of development applied, there are different types of virtual models. Depending on the type of product to be developed, several additional disciplines are applied within the main groups mentioned above, such as computer-aided software engineering (CASE), which is used in the development of IT-applications or mechatronic products with implemented IT-supported functionalities. Efficient virtual product development is based on an effective interaction and integration of the various systems applied to enable a close cooperation with all participating departments and development partners.

This special session aims at giving recent works related to that virtual engineering field and will focus on several following topics:

Topics

- ▶ *Virtual, collaborative and Multi-disciplinary product design*
- ▶ *Sustainable design, Robust design, ...*
- ▶ *Product life cycle management (IT Systems, ...)*
- ▶ *Engineering data/knowledge management and exchange (interoperability...)*
- ▶ *Design for Additive Manufacturing, Design for Manufacturing, Design for News Process, ...*

Submission

Please submit your full paper on the EasyChair website:

<https://easychair.org/conferences/?conf=cie45>

May 31, 2015: deadline for paper submission

June 21, 2015: notification of acceptance/reject

July 15, 2015: deadline for final paper

August 16, 2015: deadline for registration.

Practical information

All papers must be written in English and should describe original work. The length of the paper is limited to a maximum of 8 pages (in the standard CIE conference format). For up-to-date information and paper submission, please visit the conference submission page:

<https://easychair.org/conferences/?conf=cie45>

The proceedings of CIE 45 will be published on the web page of the conference and that of Computers & Industrial Engineering. They carry the identifier ISSN of 2164-8670 for the CD-ROM version and 2164-8689 for the Online version. A special issue of the international journal "COMPUTERS & INDUSTRIAL ENGINEERING" will be dedicated to the best papers presented at the conference after rigorous reviews.

For any practical issue please write to: cie45@easychair.org

