

International Joint Conference on Mechanics, Design Engineering and Advanced Manufacturing

KEY DATES

December 20th 2017

Extended abstract submission deadline

January 10th 2018

Abstract relevance notification

February 10th 2018

Full paper submission deadline

March 20th 2018

Accepted paper notification

April 10th 2018

Revised paper submission

May 1st 2018

Accepted paper notification

SCIENTIFIC COMMITTEE

Conference Chair

Francisco Cavas Martínez
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Conference Program Chair

Daniel García Fernández-Pacheco
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S-mart PRESIDENT

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The International Joint Conference on Mechanics, Design Engineering and Advanced Manufacturing (JCM 2018) originates as the 9th Joint Conference of INEGRAF (Asociación Española de Ingeniería Gráfica), ADM (Associazione Nazionale Disegno e Metodi dell'Ingegneria Industriale) and S-mart (Systems, Manufacturing, Academics, Resources, Technologies).

The conference will be focused on the latest advances in Design and Manufacturing Methods and Tools in Engineering (Mechanical, Automotive, Aeronautics, Civil, Industrial, etc.) and Architecture, with regard to:

- Geometric Modelling and Industrial Process Design
- Augmented and virtual reality for product and process design
- Smart Production Systems and Advanced Manufacturing Technologies
- Engineering methods in Medicine
- Innovative Product Development and Design Methods
- Innovation in Building Information Modelling and Architecture
- Education, learning and knowledge

We are pleased to invite all researchers, engineers and students to participate. The contributions will be selected for oral session or poster session.

Authors will be invited to submit extended abstracts, which will be peer reviewed for relevance to the conference topics.

Full papers will be peer reviewed for acceptance with the essential corrections and proposed for oral presentation or poster session.

All the accepted papers will be published on Lecture Notes in Mechanical Engineering, a book edited by Springer and indexed in SCOPUS.

Selected papers will be invited to be submitted to several journals indexed by Scopus and Science Citation Index (*pending approval*).

<http://www.jcm2018ct.com>

The conference will take place in the millenary city of Cartagena, a city with more than 3,000 years of history and that has been the scene of some of the most outstanding passages throughout time. This Punic, Roman, military and art nouveau city offers nowadays so many things to see and do that it has become one of the most appealing destinations in the Mediterranean area.

TOPICS

PRODUCT DESIGN & DEVELOPMENT

Green engineering & eco-design
User centered design
Product lifecycle-based design
Robust design, reliability & maintenance
Modelling and simulation-based design
Ergonomics & human factors
Global product development

COMPUTER-AIDED DESIGN AND INTERACTIVE DESIGN

Virtual approaches for interactive design
Virtual prototyping-based design
CAD, CAE, IFC and BIM
Image processing and analysis
Geomatics engineering: cartography, GIS,...
Geometric modelling and analysis
Reverse engineering
Virtual and augmented reality

MANUFACTURING AND INDUSTRIAL PROCESS DESIGN

Integrated/Advanced manufacturing
Manufacturing process and production management
Rapid prototyping
Additive Manufacturing
Flexible assemblies
Remanufacturing
Industry 4.0

GRAPHICAL BIOENGINEERING

3D modelling of biological structures
Computer-aided methods for pathologic diagnosis
Emotional engineering
Biomimicry for product design
Simulation and visualization of biological systems
Life science and design for healthcare

INNOVATION

Creativity & innovation methods
Collaborative engineering
Intellectual property management
Design science research methods

TEACHING-LEARNING

Teaching on Graphic Expression
Theoretical & applied geometry
Industrial & graphic design
New approaches in teaching/learning process
Project-based education
Interactive 3D modelling

