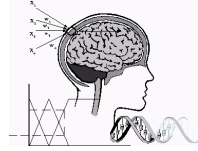




International

Innovation in Knowledge Based and Intelligent Engineering Systems



INVITED SESSION SUMMARY

Title of Session:

Additive Manufacturing and Sustainability

Name, Title and Affiliation of Chair:

Professor Rossi Setchi, Cardiff University, UK

Professor Qian Tang, Chongqing University, China

Professor Quanquan Han, Shandong University, China

Professor Johanna Esguerra Arce, Escuela Colombiana de Ingeniería Julio Garavito, Colombia

Details of Session (including aim and scope):

This session brings together academic researchers and industrialists interested in the potential of additive manufacturing (AM) to change product development, manufacturing and logistics, and improve the sustainability across a range of industrial sectors. Of particular interest is the potential of additive manufacturing for recycling and circular economy.

The scope of the invited session includes but is not limited to the following topics:

- Theoretical modelling and simulations,
- New materials for additive manufacturing,
- Multi-material additive manufacturing,
- Lattice structures,
- Use of recycled materials in additive manufacturing,
- Lifecycle assessment of additive manufacturing,
- Process optimisation and control,
- Industrial applications.

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<https://www.cardiff.ac.uk/camsac/research/projects/astute-2020>

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<https://gow.epsrc.ukri.org/NGBOViewGrant.aspx?GrantRef=EP/V054627/1>.

The project with Colombia is part of the UK-Colombia Industry Academia Partnership Programme of the Royal Academy of Engineering.

Main Contributing Researchers / Research Centres (tentative, if known at this stage):

ASTUTE, Cardiff School of Engineering, Cardiff University
Chongqing State Key Laboratory of Mechanical Transmission, Chongqing University
School of Mechanical Engineering, Shandong University, China
Escuela Colombiana de Ingeniería Julio Garavito, Colombia

Website URL of Call for Papers (if any):

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