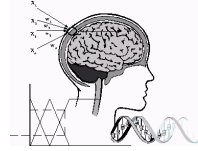




International

*Innovation in Knowledge Based and Intelligent
Engineering Systems*



INVITED SESSION SUMMARY

Title of Session:

DESIGN FOR ADDITIVE MANUFACTURE

Name, Title and Affiliation of Chair:

Dr Vimal Dhokia, University of Bath, UK; Prof. Stephen T. Newman, University of Bath, UK

Details of Session (including aim and scope):

Additive manufacturing is increasing in use across all industrial sectors due to the plethora of capabilities it offers, both for metal and polymer components. These capabilities can extend to enhanced flexibility, increased complexity of components, internal features and geometries, reduction in material waste and single setup manufacture to name but a few. In order to fully realise these capabilities there is a need to design parts, components and products specifically for this emerging technology. This encompasses the need to define and create new design methods, models and approaches that are able to capitalise on the full capabilities of additive manufacturing, whilst minimising component scrap rates and reducing design intent loss.

The aim of the proposed session will be to deal with design models, design approaches, computational methods, technical, modelling and organisational aspects of design for additive manufacturing methods.

The scope of the Session will cover the following:

- Design specifications, requirements, design methods and DfX
- Design for hybrid manufacture
- Design modelling and analysis for additive
- Design methods and approaches for additive
- Computer aided design for additive
- Physical process technologies – testing, measurement and control
- Process capability definitions for additive
- Informatics and data modelling for design for additive
- Incorporation and use of new emerging standards for additive manufacture (AMF, STL 2.0)

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

Contributions welcome.

Website URL of Call for Papers (if any):**Email & Contact Details:**

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