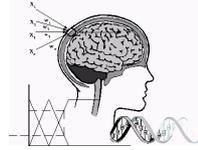




International

*Innovation in Knowledge Based and Intelligent
Engineering Systems*



INVITED SESSION SUMMARY

Title of Session:

Regenerative manufacturing and design

Name, Title and Affiliation of Chair:

Prof. Luisa Huatuco, School for Business and Society, University of York, UK
Dr Susan Evans, School of Design, Hong Kong Polytechnic University, Hong Kong

Details of Session (including aim and scope):

Regenerative systems have captured the imagination and are driving new purpose in the agricultural community. Yet until now the concept of regenerative manufacturing and design are a relatively new paradigm in manufacturing and design systems. This new paradigm aims to increase the wellbeing of all human and non-human actors, which include supply chain suppliers, customers, intermediaries, investors, for example, as well as the natural ecosystems such as biodiversity, soil, water, and air. Regenerative manufacturing activities/processes contribute to adapting, restoring, self-healing of the natural environment. In this vein, the purpose of regenerative manufacturing and its design is to ensure that its activities/processes move away from destructive behaviours and towards behaviours for “net positive” impacts on the natural environment, people and their communities.

This special session aims to present the latest research efforts in regenerative manufacturing and design with a focus on the circular economy (CE) that involves manufacturing operations and supply chains. The CE can act as a catalyst for regenerative manufacturing activities to take place or as a context in which regenerative manufacturing can flourish and thrive.

The organisers are keen to receive submissions on the topic of Regenerative manufacturing and design on the following areas (but not limited to):

- Conceptual frameworks,
- Case studies,
- Experiments,
- Performance metrics,
- Sustainability,
- Resilience.

Authors’ guidelines and Deadline for submissions can be found in the conference website:

<http://sdm-26.kesinternational.org/invitedsessions.php>

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

Prof. Peter Ball, University of York, UK
Côme Citröen, University of Cambridge, UK
Prof. Steve Evans, University of Cambridge, UK
Dr Zahit Ergun Gungor, University of Cambridge, UK
Prof. Minna Lammi, Anglia Ruskin University, UK
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