

**APMS 2012 International Conference**  
**Competitive Manufacturing for Innovative Products and Services**  
**Proposed Special Session**

**Title:**

Sustainable value creation in manufacturing

**Chairs of the Session:**

- Steve Evans, University of Cambridge, email: [se321@cam.ac.uk](mailto:se321@cam.ac.uk)
- Jayantha Prasanna Liyanage, University of Stavanger, email: [j.p.liyanage@uis.no](mailto:j.p.liyanage@uis.no)
- Marco Macchi, Politecnico di Milano, email: [marco.macchi@polimi.it](mailto:marco.macchi@polimi.it)
- Teuvo Uusitalo, VTT Technical Research Centre of Finland, email: [teuvo.uusitalo@vtt.fi](mailto:teuvo.uusitalo@vtt.fi)

**Session objectives and topics:**

Sustainability issues related to manufacturing sector have been under the attention of many stakeholders within the business ecosystem during the last years. Several research projects focusing on these topics have also started and, last but not least, a good number of publications has been released in the scientific context.

A challenging issue, partially uncovered, is the *sustainable value creation in manufacturing*, as a leading concept toward the development of industrial models, processes and performance standards for new sustainable and more performing production and service systems. Therefore, this special session aims at gathering together contributions from different authors in order to open a debate driven by three main research questions:

1. how to enhance governance and business models, in order to enable the proactive evolution of current industrial models towards more cooperative and sustainable value-centered business networks?
2. how to adopt new approaches, methodologies and practices in business processes, in order to deliver sustainable products and services?
3. how to support continuous improvement by means of a proper performance measurement system and sustainability assurance performance standards?

This special session has the objective of discussing around these three questions and along the following primary topics.

**Topics:**

- Linking stakeholders and manufacturing value networks
- Enhancing capabilities through manufacturing value networks
- Embedding sustainability in governance models
- Embedding sustainability in business models and processes
- Embedding sustainability in the performance measurement system
- Using performance measures and standards for continuous improvement of sustainability
- Using design tools for sustainable decision making in manufacturing

**Organizers of the Special Session:**

The organizers are currently working in the FP7 funded research project entitled *Sustainable Value Creation in manufacturing networks* ([www.sustainvalue.eu](http://www.sustainvalue.eu)).