### **APMS 2012 International Conference**

# Competitive Manufacturing for Innovative Products and Services Proposed Special Session

## Title:

## **Design of Manufacturing Systems**

## **Proposed by:**

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### **Short presentation:**

The aim of this special session is to gather valuable contributions in the field of design, planning and/or reconfiguring manufacturing systems, such as assembly, machining and disassembly lines. Changeable competitive strategies in the current economy have introduced original methods of manufacturing, system layouts and objectives. The rapid evolution of technologies and products as well as the sustainability requirements poses new challenges for decision makers.

As a consequence, new models and approaches are needed in order to help designers to take efficient decisions while designing or reconfiguring manufacturing systems. This APMS Special Session aims to collect original contributions which address the development of new methods, tools and techniques supporting the design of manufacturing system in any industrial context. Examples of successful applications of these new approaches in industry are also welcome.

## **Topics:**

- Process planning
- Line balancing
- Equipment selection
- Buffer allocation
- Assembly, disassembly, machining line design