



International

*Innovation in Knowledge Based and Intelligent
Engineering Systems*



INVITED SESSION SUMMARY

Title of Session: Innovative Production Design

Name, Title and Affiliation of Chair:

Dr Venus Lun
The Hong Kong Polytechnic University

Prof. Mohammed Quaddus
Curtin University

Prof. Mohamed Naim
Cardiff University

Details of Session (including aim and scope):

Innovation refers to the use of new methods to produce products or services to meet new or existing market requirements. Innovative production design involves the development of effective business routines for business operations, enhancement of production processes, and the enhancement of services to improve customer satisfaction. Design involves identification of potential problems, provision of creative solutions, and the development of business to provide services associated with the product to improve the linkage between service providers and customers. Service design also include such activities as identification of market requirements, specification of service, creation of new services, and modification of existing service to meet market needs. The aim of this session is to explore the following issues:

- Changing roles of service design in contemporary business operations
- Relationship between service design and manufacturing design
- Methods to conduct research in service design
- Innovative approaches to manage operational processes

Suggested topics of this special session include (but are not limited to):

- Resources and capabilities requirements for innovative management
- Drivers and barriers for effective design
- Customer and service provider relationships
- Market requirement identification
- Knowledge management in service and manufacturing design
- Green knowledge management in service and manufacturing design
- Influence of emerging technology in service and manufacturing design
- Technology sharing and incentives in service and manufacturing design
- Supply chain considerations in service and manufacturing design
- Management of complex engineer-to-order projects

This Special Session will be held as part of the SDM 2014 conference. Authors should submit

papers through the conference submission website. Papers must correspond to the requirements detailed in the “Instructions to Authors”. Selected papers will be recommended to scholarly journals for publication.

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

Website URL of Call for Papers (if any):

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