

**APMS 2012 International Conference
Advances in Production Management Systems
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**Special Session Proposal
On
“Enterprise Integration and Interoperability”**

Special Session Organizers

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Topics

The enterprise / industrial environment is characterized by a high degree of heterogeneity of participating components, systems and applications. Interoperability in such environments is a challenge that needs to be addressed.

Intra-enterprise interoperability represents the need for different components / systems to interoperate independently of the different layers of the enterprise / industrial hierarchical architecture that they may reside on. Modeling the industrial / enterprise environment is the first step towards Enterprise Interoperability. Integrated Modeling of Products, Processes and Resources is also required.

Inter-enterprise interoperability represents the need for different enterprises / industries to undertake parts of the same process making available their resources / systems to this end. Intra-enterprise interoperability is usually a prerequisite for Inter-enterprise interoperability at least in collaborative manufacturing paradigms.

The Special Session will focus on (but is not limited to) the following topics:

- Model Driven Interoperability
- Product, Process and Resource Modeling
- Enterprise / Industrial Environment Semantics and Description Languages
- Middleware for the Industrial / Enterprise Environment
- Service Oriented Architectures
- Multi Agent Systems
- Mass Customization Application Enabling Technologies
- Collaborative Business / Collaborative Manufacturing
- Internet of Services, Services and Semantics
- Advanced Business Application Enabling Technologies, e.g. Integrated Supply Chain Management, Virtual / Extended Enterprise