Special Session on Soft Computing Applications in Production, Manufacturing and Design

Session Chairs:
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Abstract:
Soft computing is a collection of methodologies, which employ tolerance for imprecision, uncertainty and partial truth to achieve tractability, robustness, and low solution cost. The core subjects of soft computing are fuzzy computing, neuro-computing, genetic computing and probabilistic computing. The area of applications of soft computing is very wide, and the topics in this session are focused on the areas of production, manufacturing and design. Submissions of research papers, with applications in the following areas, are invited:

- Manufacturing systems
- Design support systems
- Intelligent control
- Optimisation
- Scheduling
- Process planning
- Intelligent information retrieval
- Agent based design systems
- Demand planning
- Plant monitoring and diagnostics
- Quality control
- Autonomous reasoning
- Simulation environments
- Identification & modelling