

Special Session **SS_09**

Intelligent Methods Supporting Manufacturing Systems Efficiency

Brief description of the specific scientific scope of the Special Session:

Management of manufacturing systems involves development of detailed solutions related to decision making and problem-solving processes. There are many important decisions to be taken and high complexity problems to solve (NP-hard), related to e.g. processes organization, planning and control of manufacturing systems. Special attention is paid to inexact solutions for which there is no known algorithm that can obtain an exact solution in polynomial time. The aim of this session is to present results of research related to management of production systems. Taking into account the complexity of problems related to production management, soft computing and intelligent methods may deliver the most adequate answers.

List of topics of interest

1. Intelligent Methods in Modelling and Design
2. Intelligent Methods in Robotics
3. Intelligence Methods in Production Planning and Scheduling
4. Intelligent Methods in Control and Supervision
5. Risk assessment in production systems
6. Applications of Intelligent Methods and Systems in Production
7. Hybrid intelligence systems
8. Machine Learning
9. Fuzzy approaches
10. Data Mining

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