

Session Title: Mathematical Modeling for Inventory Control in Production Systems and Logistics

Inventory control theory is mainly considered as a part of Operations Research, which is the application of scientific methods to arrive at the optimal solutions to the problems. Therefore, the salient feature of inventory management research consists of mathematical development and analysis of inventory models. The worldwide changing economies create the urge to adopt innovative techniques in models so as to fit for current practices with theories.

This session will identify and explore the benefits and limitations of the Industry oriented inventory systems. Applications of soft computing, hybrid algorithms and related contemporary technologies alongside applying sustainable and greening technology for supply chains particularly inventory and warehousing management will be considered in order to positively raise the inventory control issues, research and practice.

Papers related to the following topics are appropriate for the invited session:

- Mathematical modeling of inventory control system
- Supply chain management
- Cross-industry and/or cross-country inventory management activities
- Sustainability in inventory modeling
- Applications of nature inspired algorithms