# Special Issue on

# Mathematical Modeling Research in Fashion and Textiles Supply Chains and Operational Control Systems 2014

## Call for Papers

The fashion and textiles (FTs) industry is one of the most important industries, and it has rapidly developed over the past decade. With its fast development, the corresponding supply chain systems become much more complicated, and a lot of challenging optimization-related issues arise. For example, in FT supply chain systems, what are the optimal decisions in terms of production scheduling, product quality control, and final shipping and distribution in the light of the market requirements for fast fashion and short lead time? With the emergence of global sustainability concern, what is the optimal production plan in the light of the constraints such as carbon footprint? In conducting fashion trend forecasting, are there some scientifically sound analytical models which can help provide quick and accurate forecasting with limited data? This special issue is devoted to publishing the latest and significant results of mathematical modeling research on fashion and textiles supply chains and operational control systems. This special issue is on the interface between engineering and business, and hence both engineering-oriented and business-oriented papers are welcome. Potential topics include, but are not limited to:

- Dynamic optimization models for FT supply chain control problems
- Dynamics of textile machineries and production systems
- Hybrid systems for FT industry
- Optimal controls for FT systems
- Applications of optimization tools for FT industry
- Optimal inventory control in FT supply chains
- Analytical transportation systems in FT industry
- Use of information in FT supply chains
- Coordination of FT supply chain systems
- Warehousing in FT supply chains
- Forecasting models in FT supply chains
- Quality control in FT supply chains
- Sustainable FT supply chain systems

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| Manuscript Due | Friday, 27 June 2014 |
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| First Round of Reviews | Friday, 19 September 2014 |
| Publication Date | Friday, 14 November 2014 |

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