

ILS

Information Systems,
Logistics and
Supply Chain



THEMATIC SESSION: TS01

Title: Emergency Resources Supply Chain (ESRC) for Integrated Disaster Management

Conference associated Topic: Advances in Supply Chain Modelling and Performance Evaluation

Organizers: Jun REN & Dimitrios PARASKEVADAKIS (Logistics, Offshore and Marine Research Institut - LOOM, Liverpool John Moores University, UK)

Contact: j.ren@ljmu.ac.uk, d.paraskevadakis@ljmu.ac.uk

Abstract: The ability to effectively cope with large-scale disasters is becoming more and more important. Emergency Resources Supply Chain (ERSC) plays a key part in promoting the effective application of integrated disaster management. ERSC is different from conventional supply chain with unique characteristics, including:

- a) having to analyse all the demands in a very short period of time, using the limited resources
- b) being designed, constructed and maintained in order to keep continuous and smooth materials and information flows
- c) having to include a set of plans, resources, authorities, agencies, and their associated human resources.

A decision support framework for capturing and minimizing the vulnerability of ERSC in large-scale manmade and natural disasters, and increase resilience when impacted by adverse circumstances.

Keywords: Risk Modelling, Decision Making, Disasters, Emergency Resources, Humanitarian Logistics, Training Needs

