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The Second International Workshop on Sensor Networks for Supply Chain Management

WSNSCM 2012

August 19-24, 2012 - Rome, Italy

<http://www.iaria.org/conferences2012/WSNSCM.html>

Important deadlines:

Submission deadline	April 5, 2012
Notification	May 23, 2012
Registration	June 7, 2012
Camera ready	June 7, 2012

Tracks:

Privacy

Collaborative planning, forecasting and replenishment is an approach aimed at achieving accurate demand forecasts and improving supply chain operations by sharing demand relevant information between trading partners in the supply chain. In this way, the actors of the SCM are meant to share confidential information. In order to protect their privacy, there is a clear need for privacy preserving mechanisms. In this context, sensor or RFIDs can be seen as a secure mediator for information sharing in a secure matter.

Accountability

Accountability or Responsibility can be defined by the requirement to provide a justification for one's action to whomever one answerable. In supply chain context, it means defining the responsibility, for example damaged goods, between supply chain partners. The increasing collaboration between different heterogeneous entities requires this kind of measure to protect the supply chain actors. Sensor or RFIDs can ease tracking over the whole chain, and support identification of faulty actors in the chain.

Dynamic Risk Assessment

Supply Chain Management system aims at preventing and detecting on early stage any accidents within the Supply Chain. Supply Chain are subject of a large spectrum of accidents, from damaged pallet in warehouse to explosion of chemical products while shipping. Sensor and RFID are good candidate in order to capture and detect risk of accident in the Supply Chain. Their capabilities to track and to capture good's context enable Supply Chain to early detect incident, and make proper decision in order to mitigate identified risks.

SCM Quality of Service

In supply chain management, it is crucial to ensure a certain level of quality of service to fulfill customer expectation. From the production of raw material, to the distribution of finished products to the end-customer, including transformation, transportation of products, supply chain involves several actors. Each of them is meant to be evaluated based on identified performance quality of indicators (e.g., fill rate, confirmed fill rate, response delay, stock, delay). WSA and RFID would track activities during the Supply Chain in order to dynamically evaluate the quality of service within the supply chain. In addition, it would give to the Supply Chain Management System an indication for optimization.