ISCRAM 2018

Rochester Institute of Technology
Rochester, NY, USA

POSTER: A new approach of monitoring system for Supply Chain management during crisis

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"Visualizing Crisis"

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INTRODUCTION TO THE POSTER

This poster is dedicated to present a PhD research work based on sensitive products supply chain, focusing on transportation steps. Applied to the French Blood Establishment, we are working with, we aim to develop a monitoring module able to detect transportation anomalies and propose adaptations. This poster is submitted after a Wipe Paper submission rejected.

POSTER SUBJECT

Sensitive products supply chain and supply chain facing with crisis management share several aspects. In both cases, several decision makers have to choose the best options most of the time under pressure, often in emergency and need to access numerous information from the

field. This shared monitoring aspect put forward the visualization need to consider in each decision all the crisis potential impacts. Unfortunately, for the transportation steps we focus on, the current transport management systems do not reach these requirements. In this paper, focusing on supply chains during crises, we present a new monitoring system with adapted functionalities to feed in real time a shared model with reliable data from the field.

Thus, our objective is to define a predictive/early detection model of transportation anomalies and a dynamic rescheduling model of transportation steps. We currently work with the French Blood Establishment to develop a monitoring module and use their supply chain to illustrate the proposition.

The approach we present here focuses on the containers (and products) to be transported, considering the vehicles as "potential load displacement". In fact, considering the hyper-connected and more collaborative world we are about to live in it seems relevant to focus on the goods to be transported and not on the means, as Transport Management Systems do. In order to support the transportation steps and monitor them it is necessary to:
1. Collect relevant data
2. Transmit and exploit reliable data to build information
3. Encourage exchanges around a shared picture
4. Anticipate and foresee to help the decision making

The big picture below presents a model of an information system able to support supply chain management during crisis.
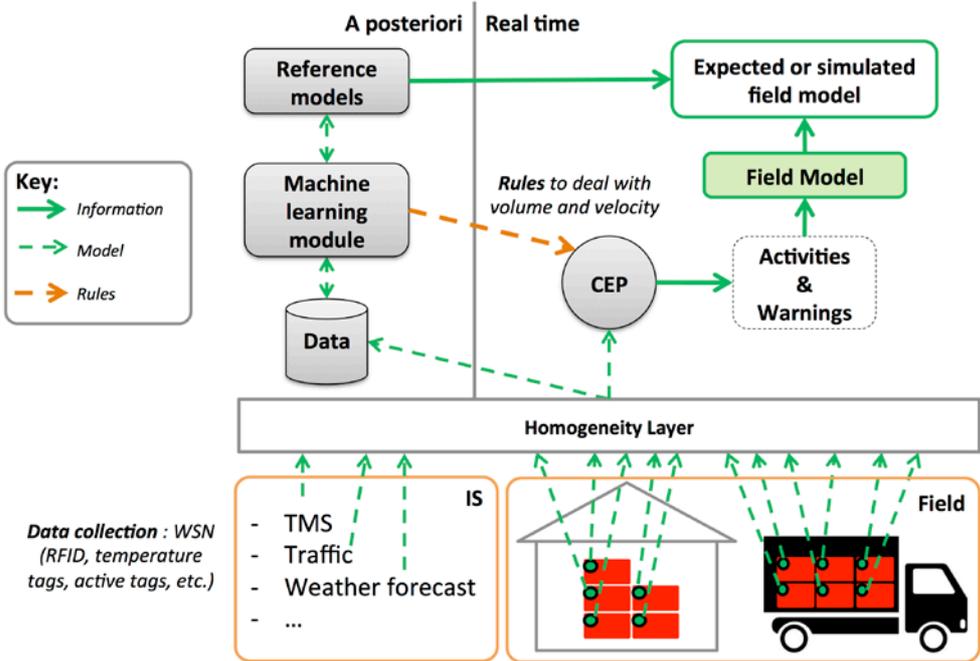
POSTER PRESENTER

Describe the previous experience of the presenter(s) at ISCRAM or related meetings, and any other qualifications for this responsibility, such as recent papers on the topic you propose. In addition you should note which presenter plan to be at the conference.

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