

**THE CONCORDIA INSTITUTE FOR INFORMATION SYSTEMS
ENGINEERING
IS PLEASED TO PRESENT THE FOLLOWING GUEST LECTURE IN
OUR CIISE DISTINGUISHED SEMINAR SERIES**

Dr. Jean-Marc Frayret
Ecole Polytechnique de Montreal

Automated supply chain coordination based on OR and Agent technology

Supply chains are networks of loosely coupled business units characterized by distinct, yet mutually interdependent, planning decision domains. Such networks are generally managed hierarchically through the central and aggregated control of a corporate business planning unit, or through a cascade process referred to as upstream planning. In order to improve the limitations of such hierarchical planning methods, several projects initiated in different research domains have proposed various extensions and alternatives to this complex problem. This presentation first proposes an overview of this relatively new and multidisciplinary research domain. Next, several projects carried out, among others, with the Québec-based FORAC research Consortium, will be presented. The complementarities between Agent-based technology and Operations Research will be more specifically addressed and analyzed.

Biography: Jean-Marc Frayret is assistant professor of industrial engineering at the Ecole Polytechnique de Montreal. Over the past eight years, he worked in the field of logistics in the forest products sector. His research interests focus on the design of systems to support decision making in the domain of manufacturing and logistics operations planning. He studied for over 10 years the complex problems of coordination and cooperation in supply chain management for which he applied the tools of operations research and multi-agent systems for the design of advanced collaborative planning and scheduling systems.

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16:00 – 17:00

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