



Séminaire conjoint / Joint Seminar

Chaire de recherche du Canada en optimisation stochastique de systèmes de transport et de logistique/Canada Research Chair in Transportation and Logistics & CRI²GS (Centre sur l'intelligence² en gestion de systèmes complexes), ESG UQAM

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DESIGNING TWO-ECHELON DISTRIBUTION NETWORKS UNDER UNCERTAINTY

Abstract: In this talk we present the stochastic multi-period two-echelon distribution network design problem (2E-DDP), nurtured by the case of a European retailer. In this problem product flows towards ship-to-points are directed from an upper layer of primary warehouses to distribution platforms (DPs) before being transported to ship-to-points. The design of the two-echelon distribution network under uncertain demand gives rise to a complex multi-stage decisional problem. Given the strategic structure of the problem, we introduce alternative modeling approaches of the problem based on a two-stage stochastic programming with recourse. The resulting models are solved using a benders decomposition approach. Numerical results will be to assess the efficiency of the solution approaches and discuss the impact of uncertainty in the two-echelon distribution network design problem.

Note : Walid Klibi, Ph.D., MBA, is a professor of supply chain management at KEDGE Business School, where he is the co-founder and head of the Supply Chain Center of Excellence. He is actively involved in supply chain management research, and is a collaborating member of CIRRELT. He is the author of several scientific papers on the design of effective and robust supply chain networks. He is also involved in teaching activities with the ISLI programs and in executive training with private organizations, and he is invited to speak to professional and scientific audiences on a regular basis. He contributed to the development of SC-Studio, a commercial supply chain network design tool.

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MERCREDI / WEDNESDAY
5 septembre 2018 /
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Salle / Room 5441
Pavillon André-Aisenstadt
Université de Montréal

Ouvert à tous / Open to all

Organisateurs / Organizers

Teodor Gabriel Crainic
Walter Rei

