



Séminaires du CIRRELT Seminars  
Partie 1/Part 1 : le vendredi 18 octobre 2013  
Partie 2/Part 2 : le vendredi 25 octobre 2013

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## UNCERTAINTY IN TRANSPORTATION AND LOGISTICS – PART II MODELLING AND APPROXIMATIONS

**Abstract** : One often assumes data and parameters defining Transportation, Logistics and Supply Chain optimization problems to be deterministic. This is, of course generally not true and it such a simplification may be unacceptable in several cases. This is, for example, the case of problems at the tactical and strategic planning levels. The aim of this two-part seminar is to explore some of the issues related to modelling uncertainty in transportation and logistics planning problems, as well as to the challenges of addressing these models.

This second seminar focuses on Transportation and Logistics applications, in particular, the multi-path TSP, the Multi-handler Knapsack, and the Capacity Planning problems, the latter introducing the Stochastic Variable Size and Cost Bin Packing problem. In each case, the model and its implication will be discussed, as well as the main solution methods. We will also discuss how to provide valid test sets for the stochastic problems and how to evaluate their results.

**Note** : Guido Perboli est professeur en recherche opérationnelle au département de génie informatique. Il est membre associé au CIRRELT. / Guido Perboli is professor in Operations Research at the Department of Control and Computer Engineering. He is a CIRRELT associate member.

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VENDREDI / FRIDAY

25 octobre 2013 /  
October 25th, 2013  
9h30-12h30

(avec pause / break scheduled)

Salle / Room 5441  
Pavillon André-Aisenstadt  
Université de Montréal

Ouvert à tous / Open to all

**Organisateur / Organizer**  
**Teodor Gabriel Crainic**

