



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

Francesca Maggioni & Guido Perboli

Università di Bergamo & Politecnico di Torino, Italie



UNCERTAINTY IN TRANSPORTATION AND LOGISTICS – PART I 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.

In the first part of the seminar, professor Francesca Maggioni will introduce different measures of information, rolling horizon and quality of the deterministic solution for a multi-stage stochastic program. Numerical results on a transportation problem illustrate the relationships.

In the second part of the seminar, professor Guido Perboli will present a general way to approximate stochastic objective functions by means of a deterministic counterpart. This approximation technique will be illustrated by means of a capacitated transshipment location problem with stochastic handling performance at the nodes (facilities).

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. Guido.Perboli@cirrelt.ca
- Francesca Maggioni est professeure en recherche opérationnelle au département de management, économie et méthodes quantitatives. / Francesca Maggioni is professor in Operations Research at the Department of Management, Economics and Quantitative Methods. francesca.maggioni@unibg.it

VENDREDI / FRIDAY

18 octobre 2013 /
October 18th, 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

