



SÉMINAIRE CONJOINT AVEC / JOINT SEMINAR WITH

La Chaire de recherche du Canada en distributique et
La Chaire de recherche du Canada en logistique et en transport /
The Canada Research Chair in Distribution Management and
The Canada Research Chair in Logistics and Transportation

Jacek Zak

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«THE METHODOLOGY OF MULTIPLE CRITERIA DECISION MAKING IN TRANSPORTATION AND LOGISTICS»

Résumé / Abstract

The presentation will provide the methodological background of Multiple Criteria Decision Making (MCDM) and its application to solving different categories of transportation and logistic decision problems. The definition of MCDM will be given and motivation for using it in transportation and logistic will be discussed. The historical background and the current status of the field will be characterized. Basic notions of the MCDM methodology will be given. Different categories of multiple criteria decision problems will be characterized and their features will be discussed. The classification of MCDM methods will be presented and selected tools and algorithms will be discussed. Two or three case studies will be presented to demonstrate practical applicability of MCDM in transportation and logistics, including:

- Optimization of the Distribution System – the comparison of single- and multiple objective approach;
- Multiple Criteria Evaluation of motor carriers; selection of the most desirable transportation service provider;
- Multiple Criteria Optimization of the vehicle assignment problem in a long-haul passenger transportation company

Note biographique / Biographical note

Jacek Zak is an Associate Professor and the Head of the Logistics Department at Poznan University of Technology, and a senior consultant at the Institute of Logistics and Warehousing in Poznan, Poland. He is also a co-founder of the Poznan School of Logistics. Professor Zak is a board member and an advisor to several Polish and international companies. jacek.zak@put.poznan.pl and www.transportation.put.poznan.pl

MARDI / TUESDAY

**8 septembre 2009 /
September 8, 2009**

10h30

**Salle / Room 5441
Pavillon André-Aisenstadt
Université de Montréal**

Bienvenue à tous / Welcome to all

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