



SÉMINAIRE CONJOINT AVEC / JOINT SEMINAR OF
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

LE MERCREDI 14 JANVIER 2009, À 10H30
WEDNESDAY, JANUARY 14, 2009, AT 10:30

SALLE 5441/ROOM 5441

Pavillon André-Aisenstadt Building
Campus de l'Université de Montréal Campus
2920, chemin de la Tour

CONFÉRENCIÈRE/SPEAKER

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TITRE/TITLE

A variable neighborhood descent for arc routing problems with time-dependent service costs

RÉSUMÉ/ABSTRACT

We propose a variable neighborhood descent for solving a capacitated arc routing problem (CARP) with time-dependent service costs. This problem is motivated by winter gritting applications where the timing of each intervention is crucial. Service cost on each required arc depends on the time of starting service on the arc. The variable neighborhood descent heuristic is based on neighborhood structures that manipulate arcs or sequences of arcs. Computational results are reported on derived instances from classical CARP instances. We also compare results with an alternative approach proposed by Ibaraki *et al.* by transforming the arc routing problem into an equivalent node routing problem.

RESPONSABLE/ORGANIZER

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