



SÉMINAIRE CONJOINT / JOINT SEMINAR

KEVIN BOSTON

Oregon State University, Etats-Unis/USA



« A REVIEW OF HEURISTIC PROCEDURES APPLIED TO A VARIETY OF
COMBINATORIAL PROBLEMS FOUND IN FORESTRY »

Résumé / Abstract

There are a variety of combinatorial problems found in forestry. These include: (1) Harvesting scheduling and transportation problems, (2) green-up or adjacency problems, (3) conservation problems including corridor and reserve location problems, (4) distributed manufacturing problems and (5) logistics problems. These problems have a many similar features as they can be formulated as a generic nonlinear, integer programming problem. In practice, these problems easily exceed most standard solution techniques. Thus, a variety of heuristics have been developed. These include simulated annealing, tabu search, genetic and evolutionary algorithms as well as some new algorithms such as the rain drop and ant colony algorithms. These various algorithms will be compared with each other based on solution quality, solution time, and parameters needed to implement these algorithms.

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LUNDI / MONDAY

**15 mars 2010 /
March 15, 2010**

10h30

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

Bienvenue à tous / Welcome to all

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