CIRRELT

Séminaire de
La Chaire d'excellence en recherche du Canada
sur la science des données pour la prise
de décision en temps réel

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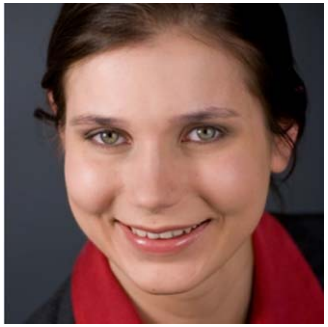

CRANE SCHEDULING AT TRANSSHIPMENT YARDS

Abstract:

Freight container transportation has been growing steadily in the last year, because containers are standardized transport units and allow significant savings on handling cost and time. We will consider scheduling of several cranes at rail transshipment yards, in which gantry cranes move containers between trains, trucks and a storage area. In particular, we will discuss the two-way bounded dynamic programming (TBDP) approach that my co-authors and me propose for solving this crane scheduling problem. TBDP has been designed to deal with situations, when it takes long to evaluate the value function in the state graph of dynamic programming; it provides sharp bounds early in the solution process and identifies critical subproblems, i.e. states and transition arcs, for which the value function has to be estimated.

As a visiting fellow staying at Université de Montréal till the end of July, I will also share some open questions from my research looking for your feedback and possible collaboration.

VENDREDI

16 juin 2017
10 h 30

Salle 4488
Pavillon André-Aisenstadt
Université de Montréal

Ouvert à tous

Organisateur:
Andrea Lodi

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