



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

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“ THE U.S. TRUCK DRIVER SCHEDULING PROBLEM ”

Résumé / Abstract

The U.S. Truck Driver Scheduling Problem (US-TDSP) is the problem of visiting a sequence of n locations within given time windows in such a way that driving, working and rest activities of truck drivers comply with U.S. hours of service regulations. We present a scheduling method for the US-TDSP which solves the single time window problem in $O(n^2)$ time. Furthermore, we show that in the case of multiple time windows the same complexity can be achieved if the gap between subsequent time windows is at least 10 hours. This situation occurs, for example, if, because of opening hours of docks, handling operations can only be performed between 8.00 AM and 10.00 PM. Computational experiments show that for a wide range of other problem instances with multiple time windows the computational effort is not much higher.

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MARDI / TUESDAY

**28 septembre 2010 /
September 28th, 2010
10:30**

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

Bienvenue à tous / Welcome to all

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