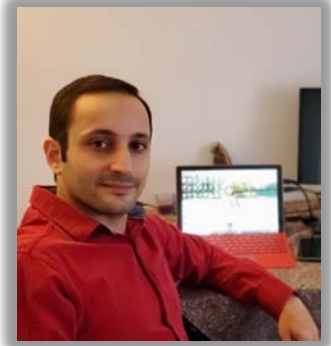




Webinaire étudiant du CIRRELT Student Webinar

Pedram Hooshangi-Tabrizi

Concordia University



FORMULATIONS AND DECOMPOSITION STRATEGIES FOR MULTI-ITEM UNCAPACITATED LOT-SIZING PROBLEMS WITH INVENTORY BOUNDS

Abstract: This talk presents different techniques to formulate the multi-item uncapacitated lot-sizing problem with inventory bounds. Exploiting the structure of the best formulation, a Lagrangian relaxation approach is used. To solve the associated Lagrangian dual problem, two decomposition strategies are investigated. The first strategy is based on a stabilized column generation algorithm and the second one uses a deflected subgradient algorithm. In both algorithms, a series of multi-choice knapsack problems are solved to either evaluate the Lagrangian function or solve the pricing subproblem.

Bio : Pedram Hooshangi-Tabrizi is a postdoctoral fellow at CIRRELT, under the supervision of Professors Ivan Contreras and Jean-François Cordeau.

To join the Webinar :

<https://us02web.zoom.us/j/84317124392?pwd=ZjlxRktxdi9lQUdoNHc5QnBLUmdrdz09>

VENDREDI / FRIDAY

2 octobre 2020, 11h00
October 2nd, 2020, 11:00

Ouvert à tous
Open to all

Responsable / Organizer

Peyman Kafaei