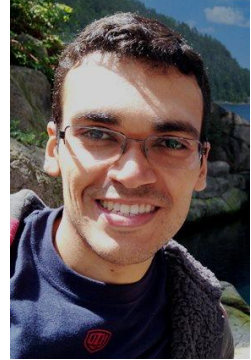




Séminaire conjoint / Joint Seminar
Chaire de recherche du Canada en logistique et en transport et
Chaire de recherche du Canada en distributique

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A ROBUST APPROACH FOR THE ASSEMBLY LINE BALANCING PROBLEM WITH HETEROGENEOUS WORKERS

Abstract: In this talk, we address a robust approach for the assembly line balancing problem with heterogeneous workers. This study can be useful in sheltered work centers for disabled or even in conventional assembly lines, in which the workforce is composed by "standard" and disabled workers. In these contexts, task times are worker-dependent and also, there are some incompatibilities task/worker. We deal with the variability of task execution times under an unknown probability distribution, minimizing the number of workstations. We propose two mathematical models and a constructive heuristic. Numerical results show the effectiveness of the proposed methods.

Note: Mayron C. O. Moreira did his undergraduate studies in Computer Science at Federal University of Viçosa, Brazil. He completed his M.Sc. in Computer Science and Computational Mathematics at University of São Paulo. Nowadays he is a Ph.D. student at University of São Paulo, under the supervision of professor Alysson M. Costa. He performs a research internship at CIRRELT under the supervision of professors Jean-François Cordeau and Gilbert Laporte.

JEUDI / THURSDAY

4 septembre 2014 /
September 4th, 2014
10h30

Salle / Room 5441
Pavillon André-Aisenstadt
Université de Montréal

Ouvert à tous / Open to all

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