



Séminaire conjoint avec / Joint Seminar with
Chaire en logistique et en transport / Chair in Logistics and Transportation
HEC MONTRÉAL

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ANALYTICAL ESTIMATION OF THE OPERATIONAL PERFORMANCE OF A RAIL-ROAD TRANSSHIPMENT YARD

Abstract: We develop a methodology for measuring the expected operational performance of the transshipment yard of a rail-road terminal. This includes the derivation of closed-form expressions for quantifying the expected crane cycle time and its variance under completely randomized operations of gantry cranes within its dedicated region. We also provide a method to measure the expected truck waiting times under cranes considering priority rules for truck service. An analysis of the performance measures shows the causes of inefficiencies and congestion sources. Our results show that non-synchronized operations have a notorious impact on transshipment yard performance, handling capacity and congestion.

Zoom : <https://hecmontreal.zoom.us/j/89156693956>

Jeudi / Thursday
20 avril 2023, 10h30
April 20th, 2023, 10:30

Salle / Room 5441
Pavillon André-Aisenstadt
Université de Montréal
et
[Lien Zoom](#)

Ouvert à tous / Open to all

Responsable / Organizer
Jean-François Cordeau