



UNIVERSITY  
OF ALBERTA

# CPA Speaker Series - Business Analytics

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Friday, September 15, 2023

10:00 AM - 11:30 AM

Location: BUS 4-04

## Allocating Resources in Multi-Warehouse Multi-Store Supply Chain Networks

### **ABSTRACT**

In this talk, we discuss solving complex resource allocation problems in a multi-warehouse multi-store (MWMS) supply chain network. This problem has many applications ranging from retail operations to disaster relief supply chains. We propose implementable approximation algorithms which are asymptotically optimal in the problem size, and show that some re-adjustments during the time horizon can further improve the performance. Numerical experiments show that our algorithms perform consistently with the theoretical results.

