



Séminaire du CIRRELT Seminar  
**MARTIN COUSINEAU**  
HEC Montréal



THE INTEGRATION OF MACHINE LEARNING AND OPERATIONS RESEARCH TO  
SOLVE MORE REALISTIC PROBLEMS

Abstract: Machine learning methods are being increasingly combined with operations research methods in order to improve the overall performance of solution methods. Yet, machine learning methods can also be used to help to solve new types of problems that are more representative of real-life problems. This seminar is in line with this latter objective. In particular, several (past and ongoing) projects using reinforcement learning to solve new problems in ride-hailing, vehicle routing and inventory management will be exposed.

Bio: Martin Cousineau is an assistant professor in the Department of Logistics and Operations Management at HEC Montréal and a professor of the Institute for Data Valorization (IVADO). He is a member of the Interuniversity Research Centre on Enterprise Networks, Logistics and Transportation (CIRRELT) and the International Observatory on the Societal Impacts of AI and Digital Technology (OBVIA). He is specialized in methods at the intersection of operations research and artificial intelligence, with applications to logistics, transportation and healthcare.

Join the seminar: <https://ulaval.zoom.us/j/61758127067?pwd=NjRzRU4rcVFaNzU3VytMR3hjdEtUz09>  
Meeting ID : 617 5812 7067 / Passcode : 104849

LUNDI / MONDAY

2 mai 2022, 10h30  
May 2<sup>nd</sup>, 2022, 10:30

Salle / Room 5441  
Pavillon André-Aisenstadt  
Université de Montréal  
et/and Zoom

Ouvert à tous / Open to all

Responsable / Organizer  
Nadia Lehoux