



## Séminaire conjoint / Joint Seminar

Chaire de logistique et de transport et Chaire de recherche du Canada en distributique/  
Chair in Logistics and Transportation and Canada Research Chair in Distribution Management

### Tom Van Woensel

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## PICKUP AND DELIVERY PROBLEM WITH TIME WINDOWS AND TRANSFERS

**Abstract:** We consider transportation problems arising in the context of City Logistics wherein carriers offer same-day transportation services comprising the pickup and delivery of a particular load at predetermined times. These problems are frequently faced by companies in a variety of applications such as urban courier services (e.g., delivery of small parcels) and dial-a-ride operations (e.g., taxi-services). Usually, such problems are framed and solved as a Pickup and Delivery Problem with Time Windows (PDPTW). We address a recently proposed variant of the PDP, the Pickup and Delivery Problem with Time Windows and Transfers (PDPTW-T). In this variant, transshipment of requests at fixed locations is allowed, such that more than one vehicle can be used to service a particular request.

*Joint work with Afonso Sampaio, Martin Savelsbergh and Luuk Veelenturf*

**Note:** Tom Van Woensel is Full Professor of Freight Transport and Logistics in the OPAC group (Operations, Planning, Accounting and Control) of the department of Industrial Engineering and Innovation Sciences. His research is mainly focused on Freight Transport and Logistics. He published around 80 papers in leading academic journals (including *Management Science*, *Transportation Science*, *Transportation Research Part B, C, D, E*, *Production and Operations Management*, *Interfaces*, *Computers and Operations Research*, *European Journal of Operational Research*, etc.) and several chapters in international books. More information on all publications can also be found on Google Scholar (current h-index is 33). He is Associate Editor for *Transportation Science*, *OR Spectrum*, *Urban Science and Logistics Research*. He is also a CIRRELT Collaborating Member.

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JEUDI / THURSDAY

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Pavillon André-Aisenstadt  
Université de Montréal

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