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Centre d'innovation en logistique
et chaîne d'approvisionnement
durable (CILCAD)



Pr. Pedro Castellucci

Federal University of Santa Catarina (Brazil)

«Logic-Based Benders algorithms for a Time-Dependent Vehicle Routing Problem»

Abstract: Vehicle Routing Problems are one of the most popular applications in the optimization literature. One of its extensions that has been gaining attention more recently is the Time-Dependent Vehicle Routing Problem (TDVRP). In this talk, we discuss the case in which the time travel between stops is not constant along the planning horizon. We present two models for the TDVRP and their respective reformulations, which are suitable for the Logic-Based Benders decomposition framework. The computational experiments revealed the potential of the decomposition framework in finding feasible and optimal solutions against the use of a black-box solver.

Biography: Pedro Castellucci is an Assistant Professor at the Federal University of Santa Catarina (Brazil). He has a PhD by The University of São Paulo (Brazil) and The University of Melbourne (Australia). His main interests in research are related to applied mixed linear programming, decomposition algorithms and heuristics.

Zoom: <https://ulaval.zoom.us/j/97083656708>

JEUDI

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Ouvert à tous

Organisateurs:
Leandro Coelho et Maryam Darvish

