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INCREMENTAL REFINEMENT METHODS FOR ROUTING PROBLEMS WITH TIMING CONSIDERATIONS

Abstract: In this talk I will present applications of the incremental refinement method of Boland *et al* (2017) to three variants of routing problems, namely to: 1) two-echelon location routing with synchronization at intermediate satellites; 2) routing of perishable products arising in the transportation of biomedical samples; and 3) pricing with time windows in column generation for vehicle routing. The particular methodological challenges for each application will be discussed as well as preliminary computational results to show the effectiveness of the approach in each case. This is ongoing work in collaboration with graduate students David Escobar (UdeM), Daniel Ocampo (National U of Colombia) and colleagues Ana-Maria Anaya-Arenas (UQAM), Teodor G. Crainic (UQAM), Timo Gschwind (U of Mainz, Germany) and Rafael Martinelli (PUC-Rio, Brazil).

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LUNDI / MONDAY

11 mai 2020, 10h30  
May 11th 2020, 10:30

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