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FREIGHT INTERMODAL TRANSPORTATION MANAGEMENT AND PLANNING: SND AND RM

Abstract: Revenue management concepts are rarely used when planning operations for container transportation, but new trends are showing a significant increase in the interest of practitioners and scientific research community alike. Most of the work is still to be done, however. At the tactical level of decision-making, different types of customers and different prices associated with different types of service packages offered should be explicitly taken into account, as it is more and more commonly done at the operational planning level. We propose such a conceptual setting in which revenue management policies are used at the operational level, as well as at the tactical level when planning freight intermodal transportation activities. In this context, we discuss some of the key elements related to the interaction and information feedback needed between the tactical and the operational decision levels. An example of scheduled service network design with asset management and revenue management considerations model applied to barge container transportation on a general physical network is presented. Using the corresponding numerical results we also discuss different ways the quality of the design solutions may be evaluated: economic impact, resource utilization, and quality of service.

Note: Ioana Bilegan is an Associate Professor at LAMIH UMR CNRS 8201 (Laboratory of Industrial and Human Automation control, Mechanical engineering and Computer Science), which is a joint research unit between University of Valenciennes and Hainaut-Cambresis (UVHC) and CNRS (National Centre for Scientific Research).

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JEUDI / THURSDAY

18 septembre 2014 /
September 18th, 2014
10h30

Salle / Room 5441
Pavillon André-Aisenstadt
Université de Montréal

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