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Séminaire conjoint CIRRELT, département OSD et la Chaire de recherche du Canada en logistique intégrée



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UNIVERSITÉ
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Chaire de recherche
du Canada
en logistique intégrée

«Use of Discrete Event Simulation to assess Automotive Logistics and Operations Systems Design»

Résumé: Automotive Manufacturing and Assembling is one of the most challenging fields in operations: the quantity, the variety and the size of the products to be managed (cars and their subassembly) become a difficult task. The definition of the system (the organization, the layout, the Operations Planning systems) is expensive and has perdurable effects on the productivity of the plant.

During the last years, some plants have been closed and some others have increased the variety of models being assembled at the same line, triggering an increase on the number of outsourcing activities making the logistics flows at the plant more difficult in terms of efficiency and safety.

As systems become more complex, decision making is more difficult. Understanding the problem (generally not explicitly defined), modelling the system (in some cases models exist and need to be changed, in many others the new system is not related with the forthcoming one) and assessing decisions made by multiple stakeholders (engineers and managers) having different objectives and constraints becomes a task where Discrete Event Simulation Modelling might help.

The presentation will “visit” a plant and some suppliers using simulations and will present how simulation experiments supported decision makers with insights and recommendations that were used to address various assembly problems.

Biographie: Jose P. Garcia-Sabater is full Professor on Operations Management at the Universidad Politècnica de Valencia, and member of the ROGLE research group. He holds a degree in Combined Engineering from Coventry University and a PhD in Industrial Engineering by the UPV. He has applied Operations Management to the automotive industry in Valencia(Spain), Ford has one of the largest manufacturing clusters in Europe. His research interest focus on Operations Systems Design, Planning and Scheduling at the automotive sector, and the integration of mentally handicapped people at work.

MERCREDI

20 novembre 2019

10 h 00

Local 1609

Pavillon Palasis-Prince

Université Laval

Ouvert à tous

Café et viennoiseries

Organisateurs:

Angel Ruiz et Leandro Coelho



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