

# A Flexible Model for Integrated Production Scheduling and Employee Timetabling in Robotic Assembly Lines

David ALCAIDE LÓPEZ DE PABLO<sup>1,\*</sup>

Vladimir KATS<sup>2</sup>

Eugene LEVNER<sup>3</sup>

<sup>1</sup>*University of La Laguna, La Laguna, Tenerife, Spain*

<sup>2</sup>*Institute of Industrial Mathematics, Beer-Sheva, Israel*

<sup>3</sup>*Holon Institute of Technology, Holon, Israel*

\*Corresponding Author:

Avenida Astrofísico Francisco Sánchez, 38204 La Laguna, Tenerife, Spain.

E-mail address: dalcaide@ull.es . Phone: +34 922 318182. Fax: +34 922 318170/319202.

## **Short Summary of the Abstract**

Robotic assembly systems have the practical need of integrating automatic scheduling and employee timetabling. Scheduling decisions are usually done first, maximizing productivity; whereas employee timetabling decisions are done next, adapted to the production, minimizing labour costs.

We propose a model to maximize productivity, under bounded labour costs, treating simultaneously production scheduling and employee timetables.

## **Keywords**

*Production scheduling, employee timetabling, robotic assembly lines*

## **Acknowledgements**

This work has been partially supported by Spanish Government Research Projects MTM2004-07550, SAB2005-0161, MTM2006-10170 and MTM2007-60928, which are also assisted by European Funds of Regional Development, and Foreign Professor Visit Program of the University of La Laguna.

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