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Universidad Politécnica Valencia
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Lecturer at:

Industrial Engineering Faculty (UPV - Universidad Politécnica de Valencia, Spain)
Technical School of Mechanical Engineering (UPV School in Ford-Valencia factory)
Management Science Faculty (UCS-Universidade Caxias do Sul, Porto Alegre-Brazil)
International MBA – IDEC (UPF - Universitat Pompeu Fabra, Barcelona - Spain)

Educational background

M.Sc. in Industrial Engineering, Sept 1999
Graduated in University Pedagogy, 2007
Universidad Politécnica Valencia, Spain

Ph.D. in Industrial Engineering, July 2004
Management Science Department
Universidad Politécnica de Valencia, Spain

Publications in indexed journals

An exact calculation of the cycle service level in a generalized periodic review system

JORS - Journal of Operational Research Society (2006) 57, 1252–1255

Advantages of assembly lines in Sheltered Work Centres for Disabled. A case study

IJPE - International Journal of Production Economics (2007) 110, 187-197

B&B procedures for solving the Assembly Line Worker Assignment and Balancing Problem: Application to Sheltered Work centres for Disabled. **DAM-Discrete Applied Mathematics (2008) 156, 352-367**

Balancing and scheduling tasks in assembly lines with sequence-dependent setup times.

EJOR-European Journal of Operational Research (2008) 187, 1212-1223

Profiles and competences of Spanish Industrial Engineers in the European Higher Education Area.

Journal of Industrial Engineering and Management (2008) (01)02, 269-284

Oral presentation and assessment skills in Engineering Education.

IJEE-International Journal of Engineering Education (2008) Vol. 24, No. 5, 926-935

The use of Employee Participation in the USA and Spanish companies.

International Journal of Management Science&Engineering Management (2008) 3, 71-80

Job rotation in assembly lines employing disabled workers.

IJPE - International Journal of Production Economics (2009) 120, 625–632

Hybrid Metaheuristic for the Assembly Line Worker Assignment and Balancing Problem.

Lecture Notes in Computer Science (2009) 5818, 1-14

OR/MS tools for integrating people with disabilities into employment. A study on Valencia's Sheltered Work centres for Disabled. **Int. Transactions in Operational Research (2010) 17, 457–473**

On solving the Assembly Line Worker Assignment and Balancing Problem via Beam Search.

COR - Computers and Operations Research (2010) doi: 10.1016/j.cor.2010.05.008

Professional accomplishments

- Finalist of the **2007 EPA Award** (Excellence on Practice Award) where **EURO** Association recognises the best European OR papers with proposals that had real impact on practice.
- Chosen as one of the two European Young OR Researchers to attend **ELAVIO** Latin-American Conference granted by **EURO** and **IFORS** (Villadeleyba-Colombia, July 2005).
- Conselleria Valenciana Benestar Social (Valencian Social Affairs Ministry). **Annual Award 2003**.
- Keynote tutorial on “Social applications of OR” at **ELAVIO** Int. Conference (Petropolis-Brazil, 2007) and plenary sessions at Int. Conferences **FCA** (Celaya -Mexico, 2006) and **ECON** (Buenos Aires, 2007).
- More than **40 communications** in **international conferences** with **peer review** (25 more in national)
- **Referee** for several international journals (EJOR, IJPE, INS, ITOR, JIEM..) and conferences.
- **Invited speaker/lecturer** for different courses and seminars in **more than 25 universities** worldwide.

Professional memberships

- **Chair of EURO Working Group “Ethics and OR”** with more than 80 top European OR researchers.
- Foundation Member Valencian Society for the application of **Ethics** to university studies (**GREVOL**)
- Fellow of the **Foundation for a New Ethical Business**.
- Spanish the Industrial Engineering&Management Society **ADINGOR**
- Spanish Statistics&Operations Research Society **SEIO** federated with **EURO**, **ALIO** and **IFORS**
- Foundation Member of the Spanish Excellence Network for Scheduling **RESET**
- Spanish Excellence Network for Heuristic optimization **RedHEUR**

Edited books

Manual de Mejora Continua en Centros Especiales de Empleo. UPV Editorial, 2004 (ISBN - 84-9705-540-3)

La educación en valores en la universidad - Los dilemas morales como herramienta de trabajo en los estudios científico-técnicos. UPV Editorial, 2005 (ISBN - 84-689-4772-5)

Cuestiones y Problemas de Estudio del Trabajo. UPV Editorial, 2005 (ISBN - 97-2385-832-3)

Aplicaciones de mejora de métodos de trabajo y medición de tiempo.

International Editorial Limusa, 2007 (ISBN-978-968-18-7033-1)

Funded Research Projects

- More than 15 Institutional funded research projects. Project Leader of two of them related to the use of Industrial Engineering tools for disabled people integration in the workforce.
- More than 10 different R&D consultancy projects (mainly Automotive and Tile industries).

Visiting research periods

CENTRE: Scottish Manufacturing Institute	UNIVERSITY: Heriot Watt University (EDINBURGH, UK)	
TOPIC: Assembly Lines and Sheltered Work Centres. Implications and practice research.	PERIOD: Feb 04 – May 04	
CENTRE: Logistic Systems Dynamics Group (LSDG)	UNIVERSITY: Cardiff University (CARDIFF, UK)	
TOPIC: Measuring the efficiency of vehicle fleet management activities: VRP applications	PERIOD: May 04 – August 04	
CENTRE: Grupo de Pesquisa de Integração da Manufatura	UNIVERSITY: UFBA (SALVADOR DE BAHIA, BRAZIL)	
TOPIC: Realistic features for modelling assembly lines. Metaheuristics application	PERIOD: Jan 06 – May 06	
CENTRE: Facultad Ciencias Administración	UNIVERSITY: Universidad de Guanajuato (MEXICO)	
TOPIC: Research on Lean Manufacturing in Mexico companies	PERIOD: Jan 07 – March 07	
CENTRE: Industrial Engineering School	UNIVERSITY: Waseda University (TOKYO, JAPAN)	
TOPIC: Research period for comparative study of japanese Workcentres for disabled	PERIOD: October 08	
CENTRE: Centre for Disabilities Studies	UNIVERSITY: University of Leeds (LEEDS, UK)	
TOPIC: Application of Universal Design principles to the workplace design	PERIOD: Feb 10 – May 10	

Research interests

- Social/environmental applications of Operations Management, widening the classical profit-oriented approaches (e.g. Disabled integration in the workforce / Green Logistics / Humanitarian Logistics...)
- Best practices on manufacturing systems, plant layout, ergonomics and factory organisation.
- Assembly line balancing problems with variable operation times and other realistic features.
- Combinatory optimisation and heuristic&metaheuristic solving procedures.
- About lecturing, I am foundation member of GREVOL-Research group on Values Education in technical studies, developing moral dilemmas and other tools to bring ethical attitudes to students.

Lecturing experience

- Work Study and Ergonomics
- Mathematical Methods for Management
- Production & Operations Management
- Production Planning and Inventory Control
- Warehouse & Logistic Systems Design
- Reverse Logistics / CSR

Lecturer/supervisor at the **Doctorate PhD. Program** of UPV (Valencia-SPAIN) with **Quality Mention**: “*Ingeniería avanzada de Producción, Logística y Cadena de Suministro*”

Lecturer/supervisor at the **Doctorate PhD. Programs** of UPV in Universidad Privada Boliviana (Cochabamba-BOLIVIA) and Universidad de Guanajuato (Celaya-MEXICO)

For more details please visit: <http://personales.upv.es/crimiin>