

Department: Electrical Engineering

Group name: *Design Modelling and Simulation in Science and Engineering*

Acronym: *DeM&S*

Group Coordinator: Jiménez Macías, Emilio

ANEP Area(s): Electrical, electronic and automatic engineering; Mechanical, naval and aeronautical engineering

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Department Report: 17/04/2015

RESEARCH TEAM

Number of researchers: 11

<u>Researcher</u>	<u>Department</u>	<u>Professional category</u>
Jiménez Macías, Emilio	Electrical Engineering	FP
Blanco Barrero, Juan Manuel	Electrical Engineering	TP
Blanco Fernández, Julio	Mechanical Engineering	FP
Bretón Rodríguez, Javier	Electrical Engineering	TCP
Martínez Cámara, Eduardo	Mechanical Engineering	Associate
Pérez de la Parte, M ^a de las Mercedes	Mechanical Engineering	TP
Sáenz Díez Muro, Juan Carlos	Electrical Engineering	Doctor on Contract
Saenz López, Raúl	Electrical Engineering	Interim Contract
Villoslada Villoslada, Gregorio	Electrical Engineering	TCP
Zorzano Martínez, Antonio Moisés	Electrical Engineering	TP
Zorzano Martínez, José María	Electrical Engineering	TCP Doctor

COLLABORATORS
Nº of collaborators: 0
Collaborators
Department
Professional category
Lines of research

- Modeling and Simulation.
- Renewable Energies.
- Advanced industrial automation.
- LEAN PRODUCTION: Just in time, Layout, Supply Chain Management and Engineering to Order, etc.
- Environmental study of products and production processes through Life Cycle Analysis (LCA). Carbon footprint and sustainable production.
- Discrete event dynamic systems.
- Artificial intelligence.
- Optimisation and decision-making.
- Advanced welding technologies.
- Digital signal processing.

Scientific and technological offer

- Optimisation of production and logistics systems through modelling and simulation, analysis and application of optimisation techniques and artificial intelligence.
- Integral optimisation of systems according to production, economic benefit, energy consumption, and environmental impact.
- Renewable energies.
- Collaboration agreements with companies and institutions for the development of new products and processes.
- Technological, energy and environmental audits.
- Consultancy and technological transfers.
- Advanced training and higher level in industries.
- Industrial Property and Patents.

National and international relations

EUROSIM (the Federation of European Simulation Societies), <http://www.eurosim.info/>
 CEA-IFAC (Comité Español de Automática de la International Federation of Automatic Control).
 Prof. Manuel Silva (University of Zaragoza).
 Prof. Miquel Àngel Piera (Autonomous University of Barcelona).
 Prof. Juan Ignacio Latorre Biel (Public University of Navarra)
 Prof. Carlos Javierre (University of Zaragoza).
 Prof. Martin Bogdan (University of Leipzig).
 Prof. Jorge Luis García (Autonomous University of Ciudad Juárez).
 Prof. Hipólito Carvajal and Prof. Ángel Sánchez (Oriente University of Santiago de Cuba).
 Prof. Francesco Longo (University of Calabria).
 Prof. Agostino G. Bruzzone (University of Genoa).