

CRIA – Network Centre for Automotive Engineering of the Universidad Politécnica de Valencia

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Organisation profile

The RDT Network in Automotive Engineering (CRIA) of the Universidad Politécnica de Valencia (UPV) is a centre formed by seven Applied Research Groups with background in the automotive sector: Centro de Investigación de Ingeniería y Gestión de Producción (CIGIP), Centro de Investigación de Tecnología de Vehículos (CITV), Departamento de Ingeniería Electrónica (DIEO), Instituto Universitario de Automática e Informática Industrial (ai2), Instituto de Biomecánica de Valencia (IBV), Instituto de Tecnología de Materiales (ITM) y Grupo de Investigación en Reingeniería, Organización, trabajo en Grupo y Logística Empresarial (ROGLE).

The goals of the Network are: 1. Design and technological transfer in automobile sector; 2. Dissemination of scientific and technological knowledge; 3. Training of professionals; 4. Offer technological services and 5. Empowering research in automotive sector.

The activities developed in the Network are: Product development, Technological assessment, Testing and certification, Training and information and Scientific research, development and technological innovation.

Main Green Cars activities: Products and Projects

- Design and evaluation of service conditions of mechanical components
- Noise and vibrations analysis
- Vehicle dynamics and robotics
- Logistics and production systems design
- Design and Implementation of optimization models / Study of work
- Operations and processes design and improvement, planning and control
- Power electronics systems
- Traffic regulation and control systems
- Polymers recycling / Plastic waste recovery
- New materials design
- Diagnosis in-service materials, equipments and structures failures
- Functionality, ergonomics and usability / Emotional evaluation
- Study of the ergonomics conditions and design of the workplace
- Advanced Robotics / Design and development of real time systems
- Applications of computer vision in quality and process control
- User friendly inter-phases and application of virtual reality techniques and 3d-graphics

Design and development of solutions for control and automation of processes