

CITCEA-UPC

Centre of Technological Innovation in Static Converters and Drives



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(Short Introduction of your institute)

The Centre of Technological Innovation in Static Converters and Drives (CITCEA-UPC) belongs to the Technical University of Catalonia (UPC). CITCEA-UPC was created in 2001 and it has been led since then by Dr. Antoni Sudrià-Andreu. The center is devoted to research, innovation and technological transfer to the industry. Currently, nine CITCEA-UPC members belong to the staff of professors of UPC. The group activity is focused on mechatronics, motion control, automation, power electronics, energy conversion, renewable and conventional energies and power systems.

Key Research Fields & Competence Areas:

Mechatronics: Power electronics, drives, motion control, automation and industrial communications.

Digital control of power converters, DSP, frequency converters, energy storage, battery chargers, CHAdeMO, PLC, high precision synchrotron power supplies, automation, CAN, industrial communications, ASi, web servers, microprocessor

Enerternics: wind energy, photovoltaic energy, Smarts grids and Microgrids, renewable energy, grid integration of electric vehicles, IEC68150.

Doubly-fed induction generator, back-to-back converter, PMSG, HVDC, off-shore wind energy, grid stability, energy market, FACTS, energy pricing, PSS, DigSilent.

Institute Highlights:

Research projects:

- Projects customised to industry.
- Public funded projects (regional, national and European)

Education:

- Master thesis
- PhD thesis
- Postgraduate Courses: Master degree in Mechatronics.
- Professional Courses customised to technical personal: power electronics, DSP, motion control, electric market, energy efficiency, photovoltaic, wind energy, electric vehicle.

Staff:

9 Professors, 8 PhD students, 8 Project Managers, 19 Engineers and 32 Master Students.



Contact Information:

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