

Department of Electrical and Electronic Engineering

Professor

CTS-UNINOVA
Unit A1 (Micro & Nanoelectronics and Telecommunications)



João Pedro Oliveira

Professor at DEE and researcher at CTS-UNINOVA. His current research interests are on RF CMOS low power and low voltage transceivers for Software Defined Radios and cognitive radios targeting WSN and body area networks.

<http://docentes.fct.unl.pt/jpao/>

Objectives

- ❑ Consolidate R&D in state-of-the-art IC design and corresponding techniques for low-power SoC and SiP deployment in advanced nanometer scale CMOS technologies oriented for the cognitive and software defined wireless/wire-line transceivers, targeting wireless sensor and biomedical circuits and microsystems.
- ❑ Promote and participate on advanced education:
 - M. Sc. (MIEEC, MEESC) and PhD courses (PDEEC)
- ❑ Promote and participate on Technology transfer
 - Collaboration with national and international companies

Methodology

- ❑ Fundamental and Applied Research, and advanced education in collaboration with national and international Universities and research centers.
- ❑ Development of advanced integrated circuits in modern CMOS nanotechnologies and scientific support for technology transfer to the industry.

Expected Results

- ❑ Integrated prototyping of state-of-the-art circuits and systems (SoCs) in advanced, deep-nanoscale CMOS technologies (beyond the 28nm node).
- ❑ Publications in major international journals and conferences.
- ❑ Consolidated connections to the industry through joint projects with existing and startup companies.

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