

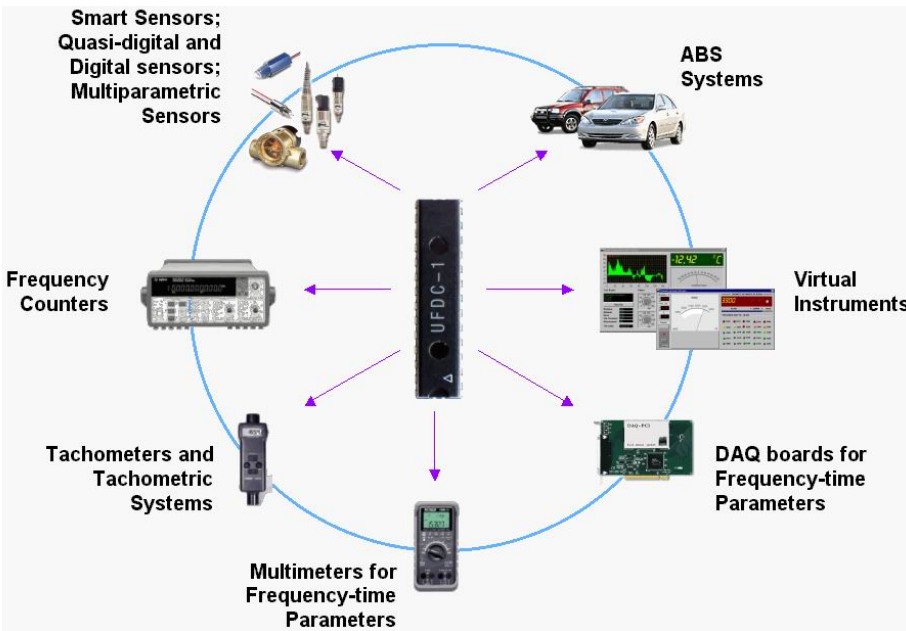
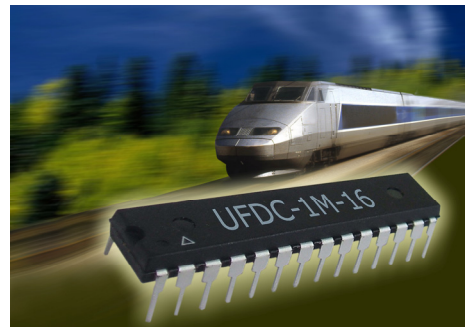
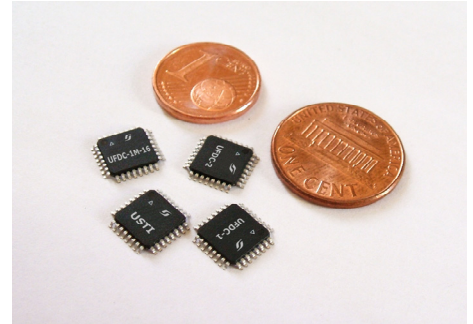


Smart Sensors Systems: Project Research Results, Dissemination, Exploiting and Using in Teaching Activities

Sergey Y. Yurish

CDEI-UPC, C/Llorens Artigas, 4-6, planta 0, Edifici U, Campus Sud, 08028, Barcelona, Spain
Tel: +34 696067716, fax: +34 93 4011989, e-mail: syurish@sensorsportal.com

- Project Goals:** design and development low cost, high performance, self-adaptive smart sensors and sensors systems
- Programme:** Marie Curie Chairs (EXC); Project: MEXT-CT-2005-023991 SMARTSES
- Core:** novel developed integrated circuits: Universal Frequency-to-Digital Converters (UFDC-1M-16, UFDC-2) and Universal Sensors and Transducers Interface (USTI)
- Novelty:** based on four patented methods of measurements; analogs no exist
- Applications:** digital and intelligent sensors and systems; universal desktop counters and hand-held multimeters; tachometers and tachometric systems; DAQ boards; virtual instruments, automobile industry; QCM-based chemical, bio- and immunosensors systems, etc.



- Dissemination:** through professional associations as IFSA (<http://www.sensorsportal.com>), IEEE (<http://www.ieee.org>), etc.
- Teaching Activities:** courses, seminars and advanced engineering courses in Spain, Germany and Italy; online tutorial at Sensors Web Portal and IEEE Sensors Council's web site
- Teaching Methodology:** Project Based Learning (PBL) and training-through-research using special equipment