

## Delegation - Spain



Sandra Bermejo  
*UPC, PhD/ Professor*



Professor Sandra Bermejo Broto earned the M.Sc. in Electrical Engineering and the Ph.D. degree in 2000 and 2004 respectively. Between 2015 and 2023, she served as the Vice Dean of the Barcelona School of Telecommunication Engineering (ETSETB) at the Universitat Politècnica de Catalunya (UPC). Her research is developed within the Electronic Engineering Department at UPC, where she leads the electro-kinetics research group. Her research objectives primarily revolve around the advancement of technology tailored for the production of functional nano-devices through electrowetting, electrospray, and electrothermal techniques, with applications spanning the domains of photonics, energy, and sensing. The research group specializes in fabricating metamaterials designed for energy and sensing applications, encompassing diverse energy harvesting and storage devices, along with the formulation of electrolytes tailored for energy, humidity, and proximity sensors. The group has the achievement of developing a pioneering supercapacitor for energy harvesting, fully engineered with dielectric nanoparticles. She has actively contributed to a total of around 30 competitive research projects, both at the national and European levels, leading four of them. She has managed four technology transfer projects with IT companies and research centers. She is author of around 50 international journal papers, more than 60 conference contributions and holds three patents.