Prof. Pierre-Yves JOUBERT

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Pierre-Yves Joubert is a Professor of Electrical Engineering at Paris-Saclay University (France). He teaches electronics and biomedical sensors at the Cachan University Institute of Technology (IUT - Paris Saclay University) and conducts research at the Center for Nanoscience and Nanotechnology (C2N – Paris Saclay University/CNRS) in the field of multisensory devices for the non-invasive characterization of complex environments.

He holds a Master's degree in Electrical Engineering with a specialization in integrated sensors, from Paris-Saclay University (1995). He won the National Competition for Electrical Engineering Teachers (French “Agregation” – 1994), preparing him to teach electrical engineering at a national level. He obtained his Ph.D. thesis entitled: “Multisensor eddy current probe for non-destructive evaluation of steam generator tubes in nuclear power plants” in 1999 at Ecole Normale Supérieure de Cachan (ENSC). He was an associate professor at ENSC from 2000 to 2011 and head of the “Multisensor Information Processing” team (2007-2011) of SATIE Research Lab.

He has been a full professor at Paris-Saclay University (formerly Paris-Sud) since 2011. He has been responsible for a biomedical electronics training at IUT since 2013. He has headed the Microsystems Department at C2N from 2015 to 2025. He was also Deputy Director of C2N from 2016 to 2025. Since 2024, he has been Deputy Director of Research at the Graduate School of Engineering and Systems Sciences at Paris Saclay University.

His research interests focus on multisensor and multimodal devices for the non-destructive/non-invasive evaluation of complex environments by electromagnetic means, with industrial applications in sectors such as aeronautics, energy, agri-food, etc., but also in healthcare (monitoring of chronic diseases, tissue characterization, early diagnostic, etc.). Since 2000, he has been actively involved in managing structured projects combining academic and industrial partners (35+) and has filed nine international patents. He is particularly interested in research related to socio-economic needs.