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Description

The WELCOME facility is a state-of-the-art technological platform providing multidisciplinary tools in the field of electrical and electromagnetic characterization. Available tools and techniques in the WELCOME facility support various research axes including micro- and nanotechnology (materials and devices), Silicon-on-Insulator technology, RF and microwave circuits, digital systems and VLSI architectures, MEMS/NEMS, cryptography, ultra low-power wireless biometric and biological sensors, molecular electronics, signal propagation and wireless communications between sensors. Extending from molecules to signals, WELCOME offers through a broadband and unified approach a wide variety of electrical and electromagnetic measurements techniques, going from the physical behavior of materials, sensors and devices, to systems architectures and signal propagation between them.