

Profilo professionale: Piero Giorgio Fallica received the degree in physics from the University of Catania, Italy, in 1978. Since 1980 he has been with R&D STMicroelectronics, Catania, where he currently works at the development of silicon single-photon detectors for biomedical applications. In the last years his research interests also included the fabrication and characterization of other advanced optoelectronic devices, like silicon carbide photodiodes for ultraviolet light detection, and biosensors for proteins and DNA detection. He has more than 35 years' experience in ICs fabrication processes, power electronics and opto-electronics. Starting from 1988, he managed the development of several types of silicon sensors: microstrip nuclear particle detectors, monolithic silicon telescopes for heavy ions detection, Radon sensors, etc. Microstrip detectors produced by ST are currently in use in the CMS experiment at LHC. He was the Coordinator of ENIAC Call-2 "CSI" project, and was WP leader or ST principal investigator in several European or Italian funded project. Piero Giorgio Fallica authored more than one hundred scientific papers and holds 20 patents US granted.