

Andrea Castoldi



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Curriculum Vitae

Andrea Castoldi received the M. Sc. degree in Electronic Engineering from Politecnico di Milano in 1989 and the Ph.D. degree in 1993. In 1993 he was Assistant Professor at Università degli Studi di Milano, Dip. Fisica, and in 1998 Associate Professor at Politecnico di Milano, Dip. Ingegneria Nucleare. Since 2005 he has been Full Professor of Electronics at Politecnico di Milano, Dip. Elettronica Informazione e Bioingegneria.

In 1992-93 he was visiting scientist and staff engineer at Brookhaven National Laboratory, Instrumentation Division (USA) where he contributed to the development of novel silicon detectors and integrated front-end electronics on high resistivity silicon for particle tracking and for high resolution X-ray spectroscopy.

His research interests are in the fields of radiation detectors for scientific applications, low-noise readout electronics and signal processing techniques, simulation and characterization of semiconductor devices. He is co-inventor of a novel semiconductor detector for spectroscopic imaging of X-rays. He is co-author of more than 180 peer-reviewed publications and holds 1 national patent and 2 international patents.

Since 1990 he has been associated to INFN with a research appointment and member of the IEEE. Since 1997 he has been head of the Imaging Detectors and Low-Noise Electronics Lab of Politecnico di Milano. He has served several international conference committees: Organizing Committee of the European Symposium on Semiconductor Detectors, International Advisory Committee and Organizing Committee of the Advanced School and Workshop on Nuclear Physics Signal Processing, Reviewer and Topic Convener of the IEEE Nuclear Science Symposium.

He has been principal investigator and co-investigator of several projects funded by MIUR, INFN, ASI and of international research contracts. He coordinated several beam-times at Sincrotrone ELETTRA Trieste and Diamond (UK), LABEC Firenze, Laboratori Nazionali del Sud, European XFEL. He recently participated in the successful development of the novel telescope array FARCOS (Femtoscope ARray for Correlation and Spectroscopy) and in the development of the DSSC detector (2009-2019), an ultra-fast X-ray 2D imaging detector specifically designed for low-energy X-ray imaging experiments (0.5-6 keV) currently installed at the European XFEL facility in Hamburg.