

Francesca Pennecchi - CV

She is a senior researcher at the Istituto Nazionale di Ricerca Metrologica (INRiM, Italy), within the Applied Metrology and Engineering Division. She holds a Degree in Mathematics from the University of Torino (Italy, 2000) and a European PhD in Metrology from the Politecnico of Torino (Italy, 2004). She was assigned with a research grant at the National Physical Laboratory (NPL, 2003) and at the Statistical Engineering Division of the National Institute of Standards and Technology (NIST, 2007). Participating into several national and international research projects (EMRP, EMPIR, IUPAC/CITAC, industrial), her research activity has been mainly focused on mathematical and statistical methods for uncertainty evaluation, regression analysis and modelling of risks of false decisions in conformity assessment. Recently, she drew her attention to Machine Learning algorithms for metrological applications, approaches for the harmonization of interlaboratory comparisons of qualitative properties and statistical modelling for virtual sensor calibration. She is member of CITAC, Eurachem/CITAC Measurement Uncertainty and Traceability Working Group and ISO/TC 69/SC 6/WG 7 Statistical methods to support measurement uncertainty evaluation. She is co-chair of the ENBIS Special Interest Group on Measurement Uncertainty; she also chairs the UNI/CT016/GL69 “Applicazione dei metodi statistici” of the Italian Standardization Body. She recently joined the Joint Committee for Guides in Metrology - Working Group on the Expression of Uncertainty in Measurement (JCGM-WG1: GUM). In the years 2020-2022, she was member of Steering Committee of the European Metrology Network for Mathematics and Statistics (EMN Mathmet) and, since 2022, she has served as the Chair of Mathmet. Francesca co-organized at the INRiM three editions of the ENBIS/Mathmet joint Workshop on “Mathematical and Statistical Methods for Metrology” (MSMM 2019, 2021 and 2023). She regularly provides PhD courses on measurement uncertainty evaluation within the PhD course on Metrology of the Politecnico di Torino. She is co-author of about 100 peer-reviewed papers published on JCR journals (Scopus h-index 18).