

Paolo Romano: scientific profile

Francesco Paolo Romano is physicist with a PhD in the field of micro-XRF applications in the Cultural Heritage field from the University of Catania (Italy). He is senior researcher at the Institute of Heritage Science (ISPC) of CNR in Catania where he serves as unit leader. He is the scientific coordinator of the XRAYLab group at ISPC and he operates in the framework of the MOLAB platform of the E-RHS European infrastructure on the Heritage Science. His research activity is focused on the use of X-rays based analytical technologies for applications of interest in the Cultural Heritage field and he is devoted on the development of advanced instruments and methods based on the use of X-rays for studying a wide range of archeological materials and art objects. He has been specialized in developing and applying mobile X-ray imaging techniques, operated in several experimental configurations (MA-XRF, micro-XRF, Confocal XRF and MA-XRD), for the analysis of ancient materials. More recently, his research activity has been focused on development of models based on artificial intelligence (AI/ML) and high performance computing (HPC) for data processing. He is a member of the Editorial Board of X-ray Spectrometry, Microchemical Journal, Heritage and Colorants and of the Advisory Committee of TECHNART and MA-XRF international conferences. He served as chairman at MAXRF2017, MAXRF2019 and TECHNRT2015 conferences, and as Associate Editor for different special issue on the topic of analytical techniques for Cultural Heritage published in X-Ray spectrometry and Microchemical Journal. At the present, Dr. Francesco Paolo Romano is task leader for ISPC-CNR in competitive EU and infrastructural projects.