Dr. ELENI S. ADAMIDI

Short Bio

Eleni S. Adamidi holds a PhD in Electrical and Computer Engineering and a MSc degree in Applied Mathematical and Physical Sciences from the National Technical University of Athens (NTUA). She is currently a Technical Manager at Athena Research and Innovation Center (ARC) at the Information Management Systems Institute (IMSI) in Athens, Greece and Principal Investigator in the European Project "Facilitate-AI" under the scientific coordination of Professor E. Gazis. She is a member of the ATLAS Experimental Physics Department (EP-UAT) of CERN under the Institute of Accelerating Systems and Applications (IASA) for over 10 years.

Her PhD research focused on the development and optimization of the Control System (CS) and Data Acquisition (DAQ) System for the Personnel Safety System used in the ATLAS cavern at CERN which provides real time monitoring of the health status of the personnel and enhances radioprotection. In her Master thesis she studied the application of ROC curves (Receiver Operating Characteristic curves) in medical data to determine significant factors, such as the outcome of the hospitalization of patients, or the necessity of intervention.

Dr. Adamidi is a recipient of several awards for her research in the biomedical field. In 2014, she was awarded a 3-year Marie Curie Fellowship, as an Early-Stage Researcher (ESR) at CERN in the project EDUSAFE – Research in the use of Augmented Reality (AR) at CERN under the supervision of Professor E. Gazis. Apart from CERN in Switzerland she has worked as a researcher at the Alpha Institute of Biomedical Sciences (AIBS) in Greece (2007), at the University of Versailles in France (2012-2013) and as a post-doc researcher at the BIOmedical Simulations and IMaging Laboratory of NTUA (2020-2022). She is the recipient of the Honorable Award from NTUA for her publication "A Safety System for Human Radiation Protection and Guidance in Extreme Environmental Conditions" in IEEE Systems Journal, in March 2020 and her publication "Control System (CS) and Data Acquisition system (DAQ) architecture for the radiation background monitoring of a Personnel Safety System in the ATLAS cavern", HNPS, 2016. She is also the recipient of the "Thomaideio Award" for her conference presentation in 2012 Euripides Forum in Graz, Austria.

She has authored and co-authored several peer-reviewed articles in scientific journals, papers in conference proceedings and has served as a reviewer in several scientific journals such as PLOS ONE (Public Library of Science), European Radiology (EURA, Springer), International Journal of Imaging Systems and Technology (IMA, Wiley Periodicals). Her current research interests include Artificial Intelligence and Machine Learning in Healthcare, Clinical Decision Support Systems, Data Acquisition Systems and Biomedical Informatics.

In 2020, she was elected Secretary of the Women in Engineering (WIE) IEEE Affinity Group of the Greece Section. She is a member of the Institute of Electrical and Electronic Engineers (IEEE), the WIE AG, the IEEE Young Professionals, the IEEE Engineering in Medicine and Biology Society (EMBS), the Marie Curie Fellows Association (MCFA) and the ATLAS Experimental Physics Department (EP-UAT), CERN. Moreover, she has served as a mentor in "Artificial Intelligence in Healthcare", ScicommHack, CERN, Nov 2020 and has also been a lecturer in the CERN Summer School in 2021.