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Konstantinos Karafasoulis is a member of the Laboratory Special Teaching Staff at the Hellenic Army Academy, where he has been teaching General and Modern Physics Laboratory courses since 2004. He earned his BSc in Physics from the Aristotle University of Thessaloniki in 1992 and received his PhD in High Energy Physics from the National Technical University of Athens in 1999. His doctoral thesis was titled “Study of the coupling constants universality using the decays $Z^0 \rightarrow s\bar{s}$.”

Dr Karafasoulis has held the position of Laboratory Special Teaching Staff since 2010 and has previously taught at the University of Aegean, the Technological Educational Institute of Athens, and the Technological Educational Institute of Chalkis. His post-doctoral research includes positions at the Institute of Nuclear and Particle Physics of NCSR “Demokritos,” the Greek Atomic Energy Commission, and the “Istituto Nazionale di Fisica Nucleare (INFN) Sezione di Pisa.”

He has co-authored over 200 publications in international, peer-reviewed journals, books, and conferences. His academic journey was supported by scholarships from the Salattellis Foundation, the State Foundation, the NCSR “Demokritos” and INFN.

Dr Karafasoulis has contributed to 13 International and National funded R&D projects focusing on radiation detectors, data acquisition systems, and novel data analysis techniques. Notably, he coordinated the NATO-funded project “A Sensor Network for the localization and identification of Radiation sources, SENERA.”

Currently, he is the secondary Chief Scientific Investigator of the project “Advancing Nuclear Forensics: Machine Learning methods for Nuclear Crime Scene Investigation” funded by the International Atomic Energy Agency (IAEA), leading research on Machine/Deep Learning algorithms for detecting and identifying radioactive and Special Nuclear Material (SNM).

Additionally, Dr Karafasoulis is a certified KNIME Data Scientist specializing in Machine and Deep Learning. He supervises the course “KNIME: An introduction to data analysis without programming” at the Center for Education and Lifelong Learning of the Aristotle University of Thessaloniki.

His research interests include radiation detector simulation and development, data acquisition systems, and data analysis techniques using classical and artificial intelligence approaches. He is also a reviewer for Elsevier Publishing peer-reviewed journals.