

Speaker: Mário Antunes, Polytechnic Institute of Leiria, Portugal

Title: Cybersecurity: the road ahead

Abstract: The pace of cyberattacks against enterprise information systems and critical IT infrastructures has challenged IT security practitioners and decision makers to invest in security technology and to raise the level of cybersecurity response. The investment in cybersecurity has been made in two distinct but complementary areas: IT technology and cyberawareness. From the technology side, IoT, IoMT and Industry 4.0 just to mention a few, have leveraged a wide set of improvements in the devices, software and security appliances. From the human factor side, as it depends on people's behaviour and attitudes, the key is to invest in onsite continuous education. This talk aims to overview the existing technologies to face cybersecurity threats and vulnerability exploits and describes the emergent strategies being developed, mostly using AI, to deal with cybercrime. A set of cyberawareness strategies will be described, namely those involving gamification and innovative onsite learning for the ordinary employee.

Biography: Mário Antunes is Ph.D. in Computer Science and has a MSc in Informatics, Systems and Networks, both from University of Porto, Portugal. He is Coordinator Professor at the Department of Computer Engineering of the School of Technology and Management of the Polytechnic Institute of Leiria, in Portugal. Since 2011 he has been senior researcher at INESC TEC, and since 2017 he has collaborated with Computer Science and Communication Research Centre (CIIC), a research center of Polytechnic of Leiria. His research interests are cybersecurity, information and network security, anomaly and intrusion detection, cloud security, digital forensics and datacenters technologies.