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Aula A6, Engineering building



Securing the consumer Internet of Things: an Overview and Research Perspectives



From smart speakers, to baby monitors, and smart kettles and TVs, these devices are increasingly found in households around the world while users may be unaware of the risks associated with owning these devices. **Why are they so cheap and what is the real value they give back to us?** In this talk, I will explore examples of information exposure from consumer IoT devices and share my longer-term research vision towards an IoT user-centered ecosystem which is privacy-aware, secure, efficient, and reliable.

Speaker: Anna Maria Mandalari works as Assistant Professor at University College London (UCL). She is affiliated with the Electronic and Electrical Engineering Department, where she is the Director of the SafeNetIoT laboratory and the Director of the Internet Engineering/Telecommunications MSc/MRes Programme. She is Honorary Research Fellow at the Institute for Security Science and Technology at Imperial College London, Visiting Assistant Professor at Yokohama National University and expert fellow of the UK SPRITE+ Hub. She is Executive Steering Board Member of the IoT Security Foundation. She has been nominated Member of the Italian Technical Secretariat of the Committee for strategies on the use of AI. She obtained her PhD within the framework of the METRICS project, which is part of the Marie Skłodowska-Curie action, intended for excellent researchers, affiliated with the Carlos III University of Madrid. Her research interests are Internet of Things (IoT), privacy, security, networking and Internet measurement techniques. She studies privacy implications and information exposure from IoT devices. She works on the problem of modelling, designing, and evaluating adaptation strategies based on Internet measurements techniques.

In addition to her research, Anna gives invited talks all around the world to promote research and create awareness on security, privacy, and ethical AI. Most of her research experiences have also significantly contributed to several EU-funded research projects and have had a significant influence on media and policymaking. Anna Maria Mandalari is also committed to promoting the interest of young women in STEM subjects. She is an active member of organizations that encourage diversity and aims to promote connections between women in the computer science and networking field.