

Summer School on Health Technology Assessment (HTA)

10th September 2015, 15:30-16:30

School of Engineering, room 105

Dr. Raquel Conceição

Chair of COST Action TD1301, Post-Doctoral Researcher University of Oxford, UK

Title: “COST Actions: a look at Action TD1301, Microwave Medical (MiMed) devices”

Abstract

The use of medical imaging technology to efficiently diagnose and manage disease has never been more important. One of the most promising emerging imaging modalities is Microwave Imaging (MI), which is low-power, low-cost, non-ionising, and also microwaves have a dual diagnosis and therapeutic capability. Microwave Imaging approaches include Ultra WideBand Radar, Microwave Tomography and Time-Reversal methods, and have already been extensively studied by European researchers in the context of medical imaging.

European researchers have been at the very forefront of the development of Microwave Imaging. Since many microwave-based imaging devices are currently poised for clinical trial, there is a unique opportunity for European researchers to leverage existing experience and expertise, and to streamline the transition from simulation/phantom testing to clinical trials of Microwave Imaging devices. Collaboration supported by a COST Action would help overcome existing challenges and bring Microwave Imaging from “research bench to patient bedside” in a much shorter period of time. Experience in Microwave Imaging device commercialisation will also be shared amongst COST partners.

The Speaker



Award winning post-doctoral researcher with a significant record of peer-reviewed publications and funded grants. The researcher currently is a post-doctoral researcher at the Institute of Biomedical Engineering at the University of Oxford, UK, and Invited Assistant Professor at the University of Lisbon, Portugal, developing microwave imaging techniques to detect and classify breast cancer. She is the chair for COST Action TD1301 (Development of a European-based Collaborative Network to Accelerate Technological, Clinical and Commercialisation Progress in the Area of Medical Microwave Imaging). She holds a Ph.D. in Electrical and Electronic Engineering (2011), and an Integrated Masters in Biomedical Engineering (2007), from the National University of Ireland Galway (NUIG) and Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, FCT-UNL (Faculty of Science and Technology, New University of Lisbon), respectively.

