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Data Science Seminars

Friday

24

September
2021

INVISIBLES: A NEW FRONTIER IN CARDIOVASCULAR ASSESSMENT



Speaker

Hugo Silva

Affiliation

IST - Instituto Superior Técnico

When

September 24th, 14h30

Where

<https://videoconf-colibri.zoom.us/my/tjvguerreiro>

Abstract

In the U.S. alone, there are almost twice more heart attacks than reported home structure fires every year. Nevertheless, a typical household has multiple fire detectors to help prevent the latter, and virtually no way of warning about the former. Biomedical sensing, analysis, and data interpretation are basic elements of wellbeing assessment, preventive healthcare, and creation of better healing environments. In this talk we will provide a brief introduction to the "invisibles" approach to biomedical sensing, describing some of the ways in which they can be incorporated in our everyday lives, and presenting practical examples of tools and conceptual installations that illustrate how the living space of the future may become an "invisible doctor".

Short bio

He completed his PhD in Electrical and Computers Engineering at the University of Lisbon. Since 2004, Hugo is a researcher at the IT - Instituto de Telecomunicações and a Professor at IST - Instituto Superior Técnico since 2019. Hugo is also a co-founder of multiple innovative technology-based companies, operating in the fields of biomedical devices and data science for healthcare and quality of life.

More recently, he has been actively working (i.e. having fun) towards making the world a bit more physiological through BITalino (<http://www.bitalino.com>), an open source software and low-cost hardware toolkit, which allows anyone from students to professional app developers, to create cool projects and applications with physiological sensors.