



Ciências
ULisboa



FCT Fundação para a Ciência e a Tecnologia
MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E ENSINO SUPERIOR Portugal

SEMINÁRIO

Título

“Smart Textiles for Biomedical Applications”

Isabel Trindade

FibEnTech, Universidade da Beira Interior

Abstract: In this seminar we present an overview on Smart Textiles for Medicine and Health Care, their main applications, recent trends and interactive garments and clothing systems for the continuous monitoring of physiological signals. We describe textile electrodes [1, 2] and prototypes [3] developed in the ambit of the national project "SIVIC – Integrated Wearable System for Cardiovascular Surveillance", funded by FCT and present the experimental results obtained, addressing the performance of the electrodes and the main achievements and limitations of the prototypes.

[1] Isabel G. Trindade, Frederico Martins, Rui Miguel, Manuel S. Silva, Design and Integration of Wearable Devices in Textiles, Sensors & Transducers, 2014, 12; 42 – 47.

[2] Isabel G. Trindade, Frederico Martins, Patrícia Baptista, High electrical conductance poly(3,4-ethylenedioxythiophene) coatings on textile for electrocardiogram monitoring, Synthetic Met 2015, 210; 179 - 185.

[3] Isabel G. Trindade, Frederico Martins, Rúben Dias, Cristina Oliveira, José Machado da Silva, "Novel Textile Systems for the Continuous Monitoring of Vital Signals: design and characterization", in Proceedings of the 37th Annual International Conference of the IEEE EMBC, Milan, 25th to 27th of August, 2015; 3743-3746.

Dia 19 janeiro 2016 (3ª feira) – 14 horas

Local: Sala de Seminários - IBEB