



Ljubljana, 15. 09. 2017

VABILO

Slovensko fiziološko društvo vljudno vabi na predavanje z naslovom

»MONITORING COGNITIVE DECLINE THROUGH VOCAL FEATURES«

Predaval bo

Dr. Saturnino Luz

**v petek, 22. 09. 2017 ob 14:00 uri v srednji predavalnici Medicinske fakultete,
Korytkova 2, v Ljubljani.**

Predavanje bo v angleškem jeziku.

Summary:

Automatic monitoring of physical and cognitive well-being has become a focus of great research interest as well as practical relevance in the area of elderly care. Emerging applications aimed at promoting healthy ageing and improving care have built on advances in sensor technology and machine learning, which provide opportunities for collection and analysis of vast quantities of personal behavioural data.

This talk will discuss methods for the detection of Alzheimer's type dementia through analysis of vocalisations and turn-taking features. Unlike other approaches, these methods do not rely on transcriptions of the patient's speech but employ features that can be easily extracted from spontaneous speech. Such methods could potentially open new avenues for continuous mental health monitoring through sensors embedded in everyday technologies and for large scale studies of cognitive decline.

DR. SATURNINO LUZ is a Chancellor's Fellow in the Usher Institute of Usher Institute of Population Health Sciences and Informatics, Edinburgh Medical School, at the **University of Edinburgh**. He works in the field of medical informatics, focusing on communication and analysis of time-based modalities in healthcare settings. He investigates inference in high-dimensional data sets, and has applied machine learning and signal processing methods in the analysis of speech and non-verbal interaction patterns for dementia prediction, and other areas such as analysis of multidisciplinary medical team meetings, doctor-patient consultations and tele-medicine. Dr Luz leads the Translational Research Group on Technology and Communication at the Edinburgh University's Centre for Dementia Prevention.