


Speech Title	Machine learning for precision medicine and remote monitoring of chronic conditions	
Speaker	Prof. Leandro Pecchia	
Organization / Affiliation	University of Warwick	
Position / Title	Reader	

Abstract

After briefly introducing the research activity of his lab, Dr Pecchia will provide an overview of his research activities in the area of machine learning and remote health monitoring for the management of chronic conditions. In this talk, Dr Pecchia will present the results of more than 10 years of experience, demonstrating how the evolution of methods and tools have enhanced the application of machine learning in real-life for the control of several conditions, including congestive heart failure, hypertension, mental stress and hypoglycemia.

Finally, Dr Pecchia will provide a quick overview of his current projects on the application of machine learning for enhancing healthcare services, also in lower-income countries.

Web site:

https://warwick.ac.uk/fac/sci/eng/people/leandro_pecchia/

Laboratory web site:

<https://warwick.ac.uk/fac/sci/eng/research/grouplist/biomedicaleng/abspie/>



Biography (150 words)

Leandro Pecchia graduated in Biomedical Engineering in 2005 the University “Federico II” of Naples, where he also received the PhD in Biomedical Engineering in 2009. After a fellowship at the University of Nottingham, in 2013 he joined The University of Warwick, UK, where he is Reader of Biomedical Engineering. In 2014, he founded the Applied Biomedical Signal Processing and Intelligent eHealth Lab (ABSPIE), which he is directing. The lab has fast grown, counting now 5 Senior Research Fellows and 9 PhD students. The lab has successfully been financed with National, European and international competitive research grants, in the area of IoT, AI, big data for health. Dr Pecchia authored more than 150 publications, including peer-reviewed journal articles, book chapters, patent applications and conference papers in the fields of Health Technology Assessment (HTA), clinical engineering, machine learning and biomedical signal processing. Dr Pecchia researches focused on healthy ageing, chronic disease management and adverse events’ prediction, medical device design, regulation, maintenance and assessment, with a particular focus to low-resource settings.

Dr Pecchia is Secretary General of the IUPESM, Treasurer of the IFMBE Clinical Engineering Division, and Elected President of the EAMBES. He also served the IFMBE Healthcare Technology Assessment Division as Chair (2015-18) and Treasurer (2012-15).