



UNIVERSITA`CAMPUS BIO-MEDICO DI ROMA

Unit of Intelligent Health Technologies, Sustainable Design Management and Assessment

UPMHealthTech: Biomedical Engineering and Health Technology activities at Universidad Politécnica de Madrid

**Enrique J. Gómez Aguilera,
Full Professor of Biomedical Engineering at Universidad Politécnica de Madrid (UPM)**

Biography:

Enrique J. Gómez Aguilera is a Full Professor of Biomedical Engineering at Universidad Politécnica de Madrid (UPM), Head of the Department of PT and Biomedical Engineering and Director of the GBT Research Center. Senior Researcher at the National Center for Research in Bioengineering, Biomaterial and Nanomedicine of the National Institute of Health and the CTB of the UPM. Prof. Aguilera has developed an intense activity in the promotion and creation of educational programs at BME at both undergraduate and postgraduate levels in Spain and in Europe. Prof. Aguilera is Director of the Master of Science at BME at UPM (since 2006). Prof. Aguilera has established several research areas in Biomedical Engineering at the UPM: Biomedical Technologies for Diabetes Care, Medical Imaging and Image-Guided Surgery, and BME in Neurorehabilitation and Brain Health. Author of 175 journal articles, 22 book chapters and 420 publications in conference proceedings. Principal investigator in 27 Spanish research projects, 20 industry projects and 39 EU research projects. Supervisor of 19 doctoral theses. President of the Spanish Society of Biomedical Engineering (since 2020) and Honorary Life Member (2018) of IFMBE (International Federation of Medical and Biological Engineering). Prof. Aguilera has been president of EIT Health Spain (European Institute of Innovation and Technology in Health) (2019-2021). Founding member of EAMBES (European Alliance of Medical & Biological Engineering Society) and member of the board of directors (2005-2009). Prof. Aguilera is a member of the Scientific Council of the "Gadea Foundation for Science".

Abstract:

Prof. Aguilera will provide an overview of his long research activity in biomedical engineering at UPM, centering the discussion around the UPMHealthTech initiative, which he coordinates as the Rector's delegate for BME and health technologies. UPMHealthTech is a community combining the Educational, Research, and Innovation capabilities of the Universidad Politécnica de Madrid. It fosters interdisciplinary collaboration in Biomedical Engineering and Health and Wellness Technologies. The seminar will cover the following topics: 1) Education: Prof. Aguilera will provide a brief overview of UPM's bachelor's and master's degrees on biomedical engineering and health technologies; 2) Research and Innovation: Prof. Aguilera will explain main UPM main research areas and fields, with a spotlight on activities at the Centre of Biomedical Technologies (CTB). Prof. Aguilera will delve into his three personally established labs at CTB, such as the one devoted to ICT for personalized medicine (showcasing examples such as BME for artificial pancreas, mHealth, and precision nutrition for oncology, etc), the one for Medical Imaging and Surgery (featuring examples of VR surgery and intelligent Operating Rooms), and the one focused on Neurorehabilitation and Brain Health. Finally, Prof. Aguilera will provide a brief presentation on the Spanish Society of Biomedical Engineering, of which he is the president.

Seminar

19 febbraio 2024 - ore 15:00

Aula R1 - PRABB

Università Campus Bio-Medico di Roma

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