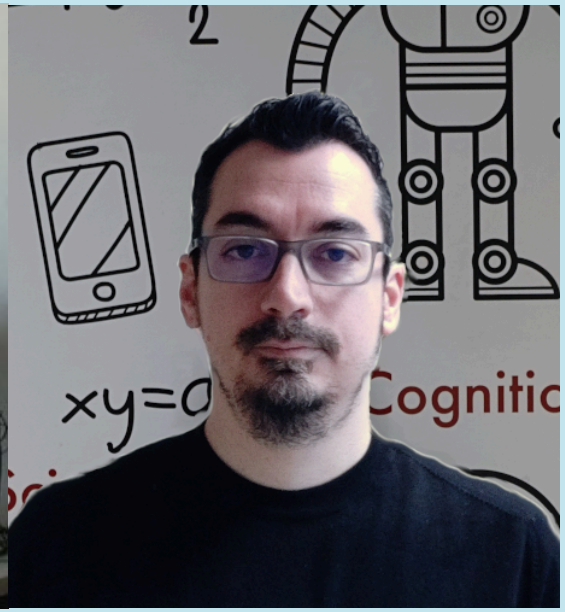
Physics Seminar: By Dr. Athanasios Vourvopoulos (IST)

"Brain-Computer Interfacing with Embodied Virtual Reality for Neuro rehabilitation"

Wednesday, 26th February 14h-15h, Room: C1.4.14



Stroke is a leading cause of long-term disability, with cases rising each year and increasingly affecting younger individuals. It impairs cognitive and motor functions, impacting independence, mental health, and placing a significant burden on healthcare systems. Non-invasive Brain-Computer Interfaces (BCIs) using motor imagery (MI) offer a promising approach by directly training the nervous system, but challenges remain in skill acquisition and long-term effectiveness. This talk will present our research on integrating embodied Virtual Reality (VR) to enhance BCI accuracy and improve motor skill training

Short bio: Assistant Professor at Instituto Superior Tecnico (IST)/University of Lisbon, and Researcher at the Institute for Systems and Robotics (ISR/LaSEEB). Member of the international Brain-Computer Interfaces (BCI), and Virtual Rehabilitation (ISVR) societies, where he has gained recognition through a 'Best Early Career Award' from the latter.