



Maurizio Petrarca was born in 1957. He is a physiotherapist (1984) and obtained an M.Sc. Rehabilitation Science at the University "Tor Vergata" (2007) in Rome and PhD in Science and Space Technology, with a specialization in Mechanical Measurements for Engineering, at the "Giuseppe Colombo"

University Center - CISAS in Padua (2011). He was employed for 15 years in a centre for adult neurorehabilitation in Rome until 1999. He founded and has been in charge of the Movement Analysis and Robotics Laboratory at the "Bambino Gesù" Children's Hospital – a research institute in Rome, from 2000 to the present day. He is the Past-president of the Neurological and Neuroscience subgroup of the Italian Scientific Society of physiotherapy (A.I.FI. www.aifi.net)

He was the PI and collaborated on many research projects concerning assessment and technological tool development in rehabilitation. He developed an in-house computerized optoelectronic system for movement analysis in 1986. He patented a mechanical dynamic orthoses system for gait recovery in 1995 and a modular robotic exoskeleton in 2012. He ideated a 3DoF robotized platform for balance assessment and training in 2006. He realizes a Dynamic Oriented Rehabilitative Integrated System (DORIS), mixing a 6DoF Stewart platform with movement analysis virtual reality and exoskeletons, not yet patented in 2019. He is developing a bioinspired robotic orthosis for the knee and elbow in the present day. He is a clinician progressively introduced in the research setting interested in studying the

function organization in different contexts and diseases. He published 79 peer-reviewed publications.

maurizio.petrarca@opbg.net

maurizio.petrarca@gmail.com