

Emilia Ambrosini is Assistant Professor at Politecnico di Milano. She received her Master Degree com laude in Biomedical Engineering from Politecnico di Milano in 2007 and her PhD degree com laude in Bioengineering in 2011. In 2009, she spent 9 months at the Technische Universitat of Berlin (██████████), in order to develop control systems for neuroprosthesis. In 2013, she visited the Neuroplasticity & Neurorehabilitation Laboratory of the University of Birmingham (██████████), where she was focused on the development of novel methods based on Transcranial Magnetic Stimulation to evaluate cortical plasticity. Since 2011, she carried on her research activity at NearLab (Neuroengineering and Medical Robotics Laboratory, directed by ██████████) and she has been involved in several national (ricerca Finalizzata GR, project PRIN, FESleg in collaboration with INAIL – Centro Protesi) and international projects (MUNDUS, EU-FP7 ICT; RETRAINER, H2020 IA ICT; MOVECARE, H2020 ICT; ESSENCE, H2020 IA; NIH Biofeedback for CP). Her research interests are the development of novel methods for functional electrical stimulation and robotic systems for rehabilitation, daily life assistance and practice of sport activities of neurological patients, the development of advanced methods to quantitatively assess the effects of rehabilitative programs both in terms of functional gains and neural correlates, the design and implementation of randomized controlled trials and systematic reviews to promote evidence-based approaches in rehabilitation. She is co-authors of more than 45 papers in international journals indexed in Scopus (H-index 17, Sept 2021). She teaches the class of Biomedical Instrumentation (Bachelor in Biomedical Engineering) and of the laboratory class of Functional Evaluation Laboratory (Master in Biomedical Engineering).