Ilaria Mileti



OBJECTIVE

Phd, Biomedical Engineer

EXPERIENCE

| Rome, Italy February 2019 - Present | Research fellow Department of Mechanical and Aerospace Engineering Sapienza, University of Rome |
|---|--|
| | Design and development of tests and protocols for dynamic posturography with robotic platforms. Design and development of novel techniques for measuring human kinematics and kinetics with wearable sensors. Dynamic stability measurement and analysis of muscle synergies in the elderly and patients with Parkinson's disease. Ergonomics evaluation of biomechanical risk with wearable system. Tutor of Biomechanics (Biomedical Engineering), Industrial Measurements (Mechanical Engineering), Mechanical and Thermal Measurements (Mechanical Engineering and Clinical Engineering) |
| Newark, New Jersey, United States June 2019 - August 2019 | Visiting Researcher Department of Biomedical Engineering New Jersey Institute of Technology |
| | Robotics-like stability study for predicting balance impairments in the idiopathic Parkinsonism Data analysis with Matlab and Visual studio Balance stability boundary, center of mass state space, constrained dynamics. |
| Rome, Italy <i>November 2015 - January</i> 2019 | PhD in Industrial and Management Engineering Department of Mechanical and Aerospace Engineering Sapienza, University of Rome |
| | Validation and evaluation of the WAKE-up exoskeleton for gait rehabilitation in children with neurological diseases. Design and application of methods for 3D motion analysis through wearable sensors. Gait phases detection by means of machine-learning algorithm. Auditory cued gait-analysis in patients with neurological diseases. Dynamic posturography through robotic platform. Tutor of Biomechanics (Biomedical Engineering), Industrial Measurements (Mechanical Engineering), Mechanical and Thermal Measurements (Mechanical Engineering |
| Berlin, Germany June 2018 - August 2018 | Visiting Researcher |
| | Department of Sport Sciences Humboldt-Universität zu Berlin |
| | Design and management of experimental protocols. Data acquisition with opto-electronic system (VICON), data analysis with Matlab Motor Control, Motor Learning, Locomotion and Muscle Synergies |
| EDUCATION | |
| Rome, Italy 2015 | Master's Degree in Biomedical Engineering Sapienza, University of Rome |
| | Biomechanics, Biomedical Instrumentation, Bioelectromagnetic Interaction, Data and biomedical signals processing, Analysis of complex biosystems, Radioprotection |
| Rome, Italy 2013 | Bachelor Degree in Clinical Engineering Sapienza, University of Rome |
| | Biomedical Instrumentation, Measurements for clinical diagnostics, Models of biological systems, |

Automatic, Data processing, Hospital plants