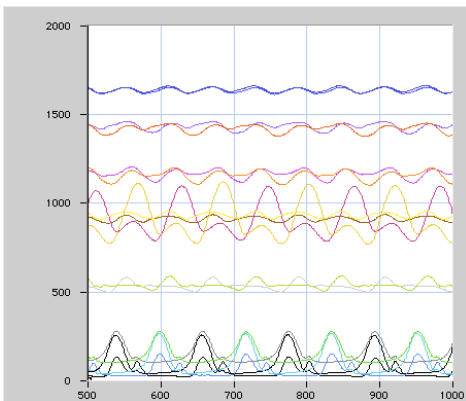
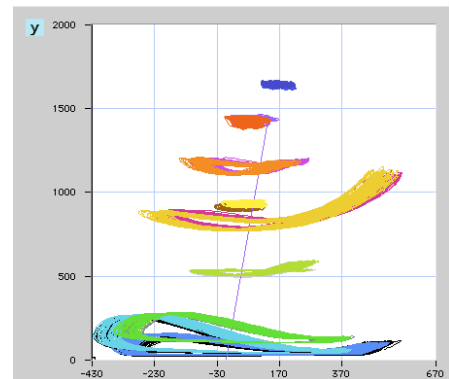




MAIN RESEARCH TOPICS

- Bioenergetics and biomechanics of natural and assisted human locomotion
- Locomotion in motor disability
- Sports biomechanics
- Development of new tools and methods for evaluating the biomechanics and bioenergetics of human locomotion in healthy subjects and in patients with neuromotor disabilities
- Portable systems for measuring physical activity during daily and leisure activities



MAIN EQUIPMENT

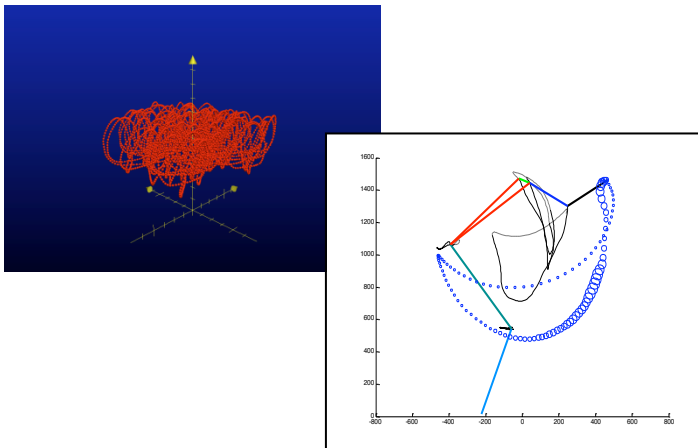
- Force platforms (Kistler 9865 1 kHz, AMTI AMTI, BP900900-2K-CTT)
- 8 cameras gait analysis system (Vicon MX, 500 kHz)
- Telemetric 16-channel EMG (Aurion ZeroWire)
- Portable metabolic unit (3, Cosmed K4 b2)
- Treadmill (H/P Cosmos Saturn 300/100r)
- Cardio-impedance system for non-invasive recording of cardiac output (Physioflow Enduro)
- Ergodynamometer Cybex NORM
- Optojump
- Force. Torque measuring system in cycling (SRM)
- Photoelectric cells with stop watches





MAIN ONGOING RESEARCH PROJECTS

- Analysis of the trajectory of the center of mass during locomotion at different speeds
- Contribution of the upper limbs to the biomechanics of different sports and of recreative types of locomotion
- Biomechanical analysis of Tai Chi
- Energy cost and mechanical work of running in elite athletes
- Bioenergetics of ultra marathon running
- Full – body walker assisted gait analysis in patients with PCI



STAFF

Federico Schena, MD, PhD
Full professor, Faculty of Sport Sciences

Paola Zamparo, PhD
Reader, Faculty of Sport Sciences

Carlo Capelli, MD, PhD
Full professor, Faculty of Sport Sciences

Luca Ardigo', PhD
Lecturer, Faculty of Sport Sciences

Davide Conte
Elena Zorzi
PhD Students, Faculty of Sport Sciences

CONTACT

Paola Zamparo, PhD

+39 045 8425113

+39 045 8425131

paola.zamparo@univr.it

Via Casorati, 43 - 37131 Verona, Italia