



**UNIVERSITÀ
DEGLI STUDI
DI TRIESTE**



**Alessandra Raffini,
PhD Student at BioingTS**

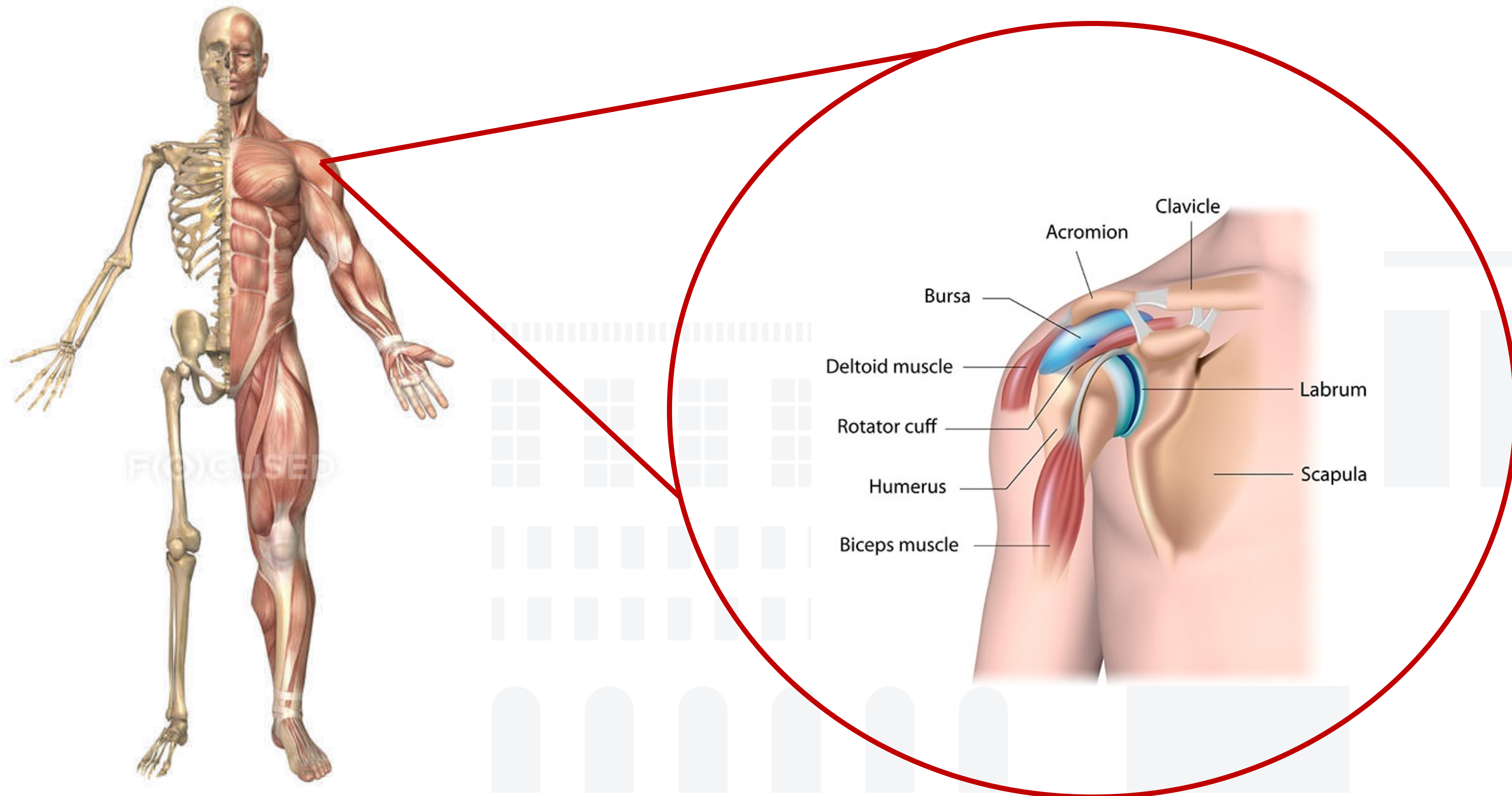
RESEARCH PROJECT:

Study of the kinematic of shoulder movement in competitive sports subjects

RESEARCH INTERESTS:

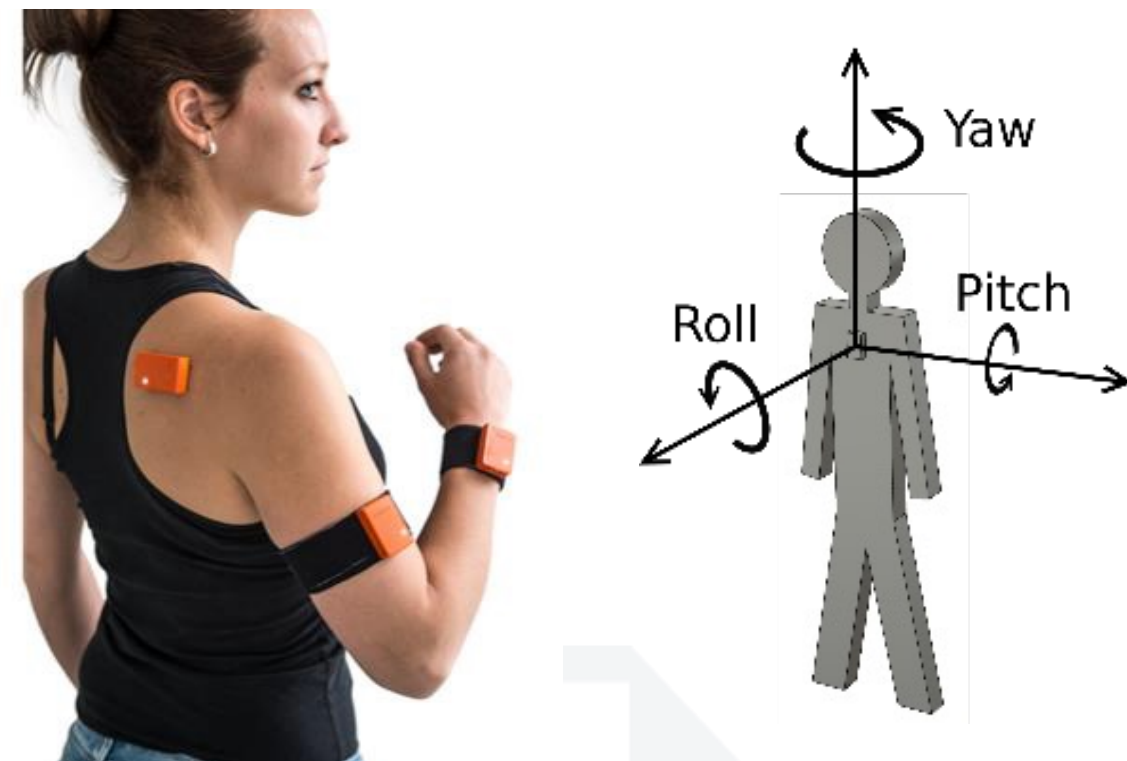
- Motion analysis
- Biomechanics
- Signal processing
- Tissue Engineering

Shoulder's anatomy



Materials and methods

INERTIAL SENSORS



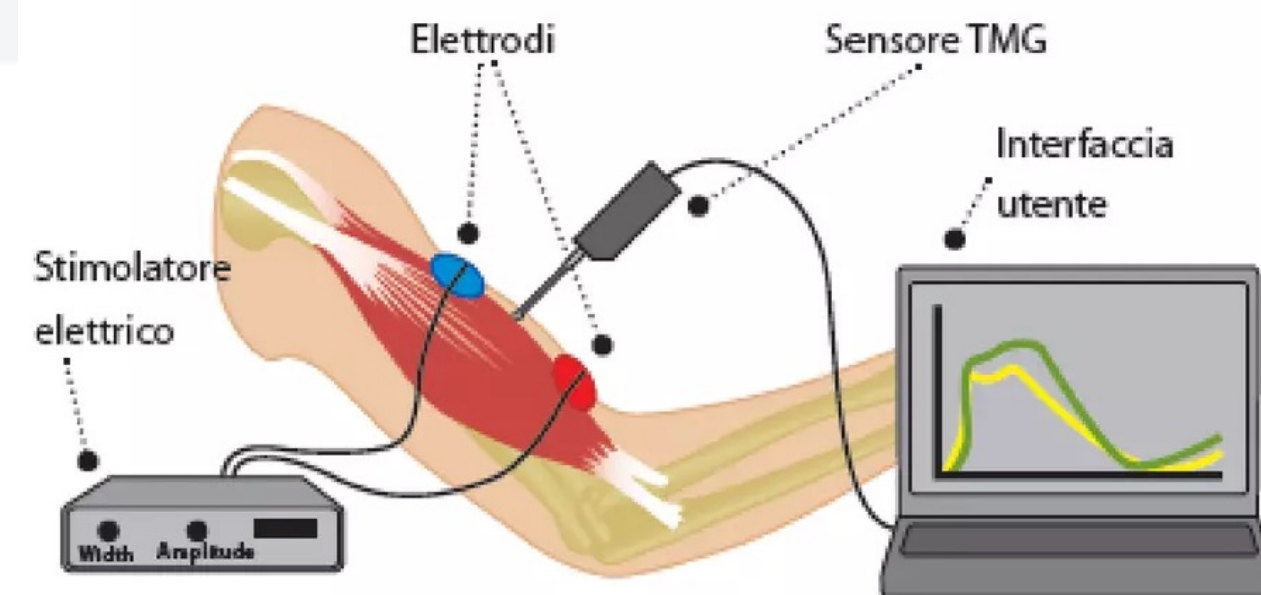
D-WALL



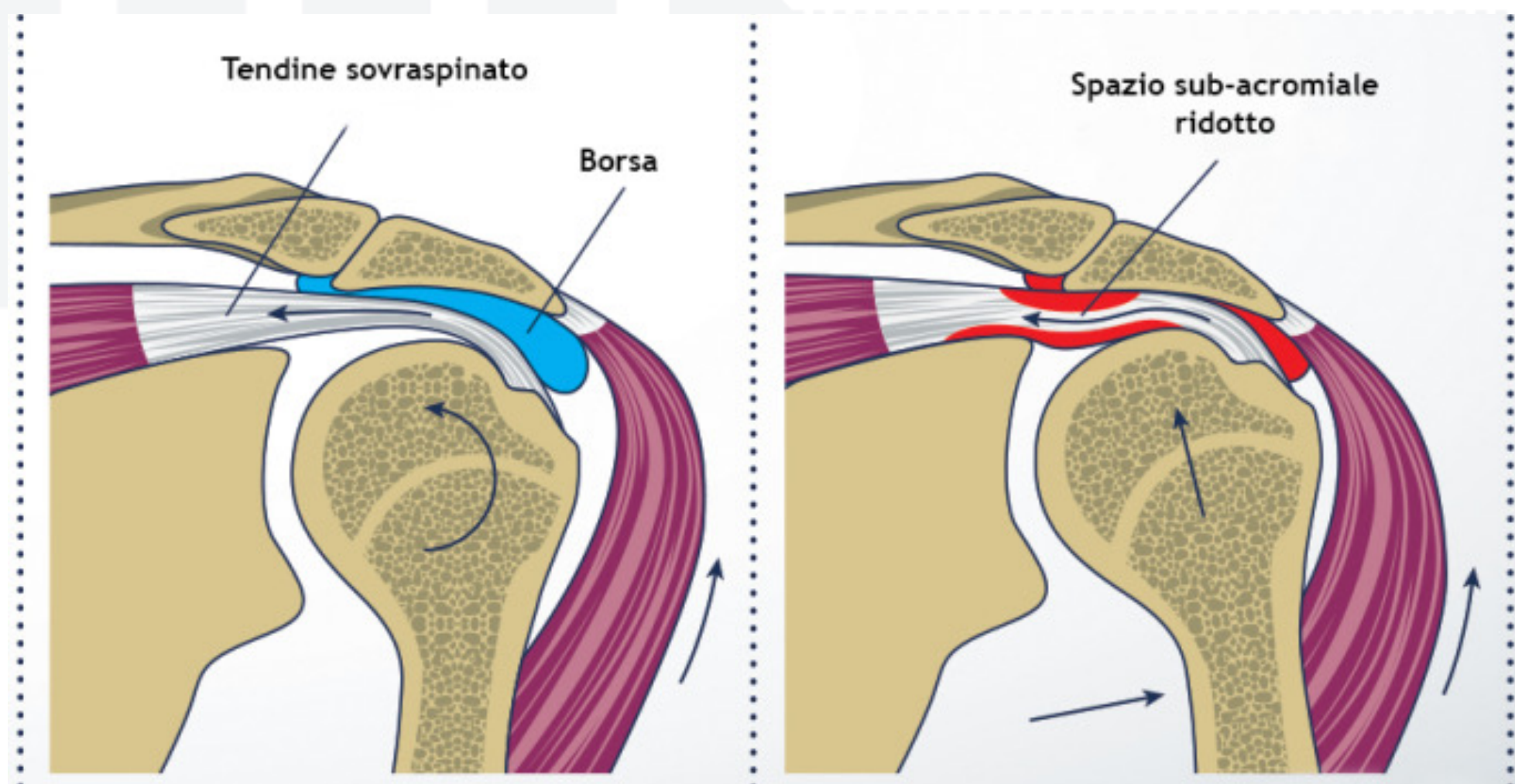
sEMG



TENSIOMYOGRAPHY



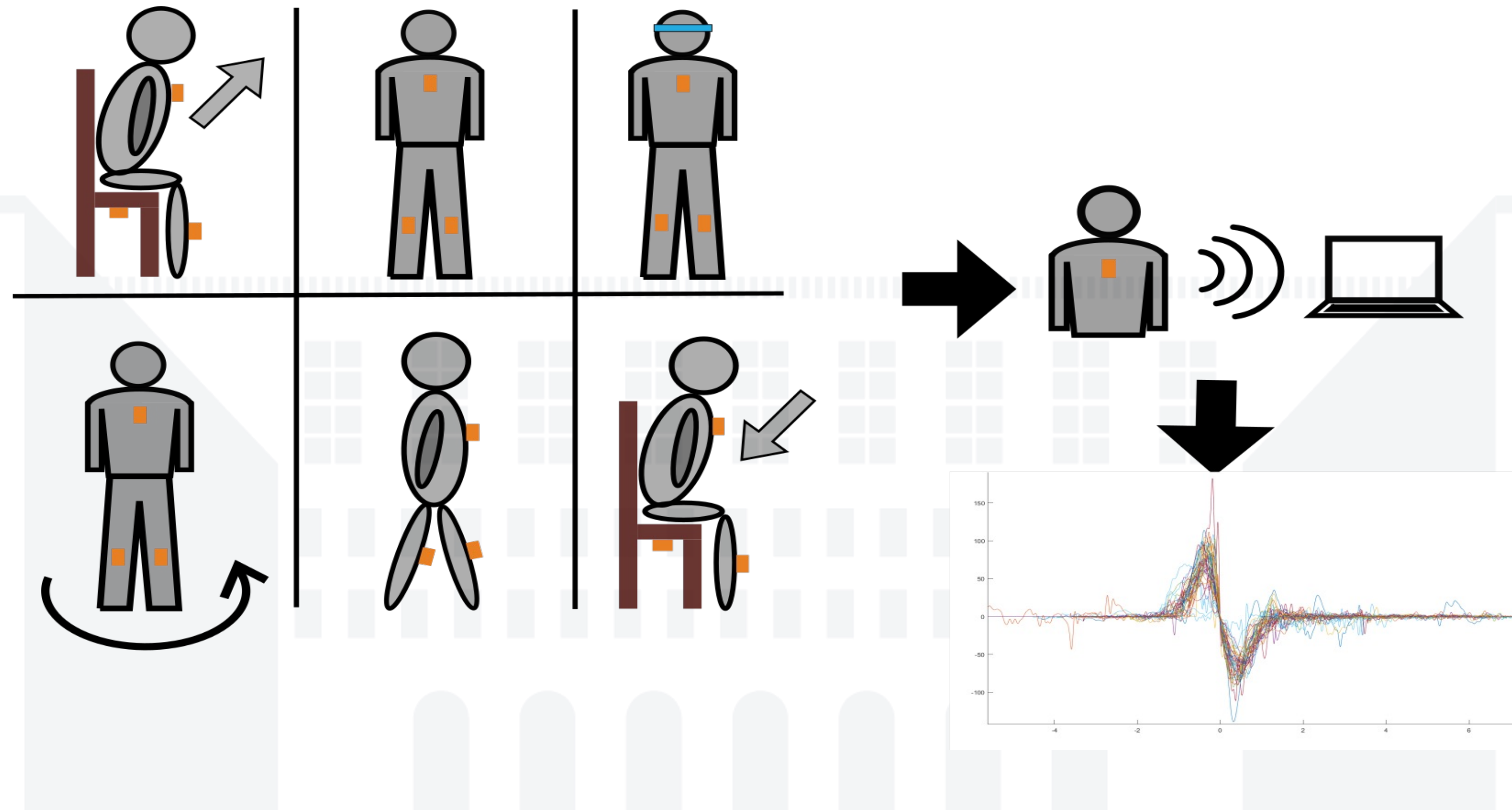
Swimmer's shoulder



Climber's shoulder



Identification of kinematic parameters that can be used for automatic application of the Tinetti test



Are personality traits related to handwriting kinematic features?

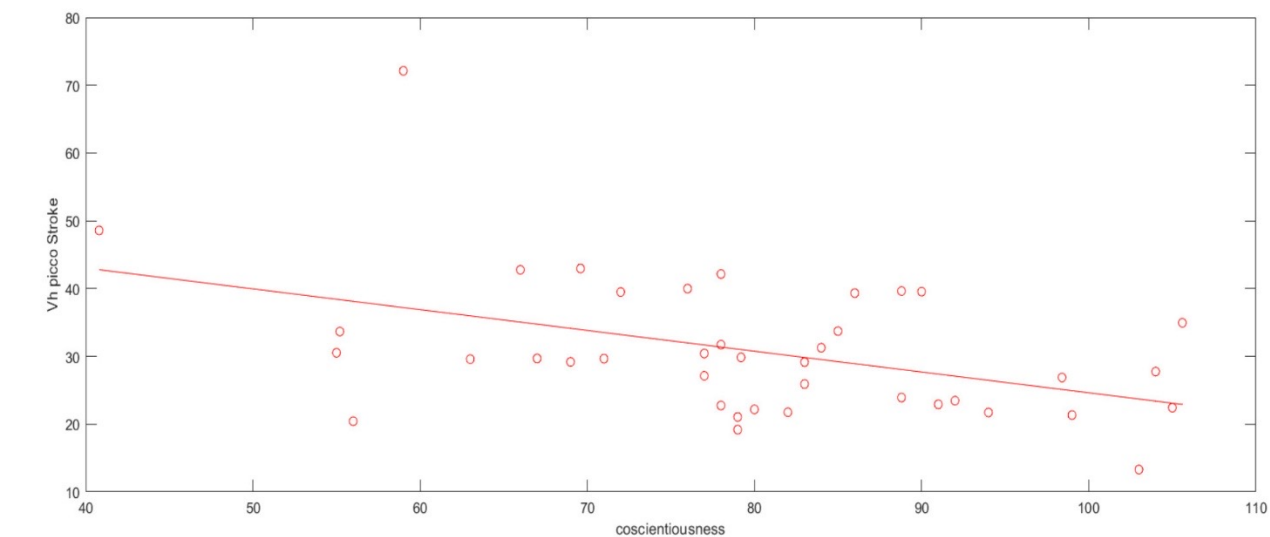
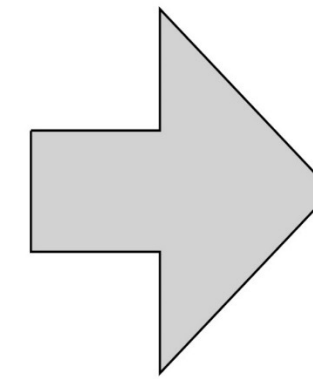
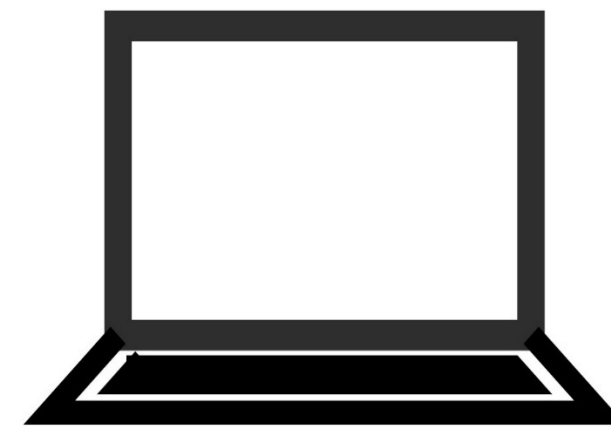
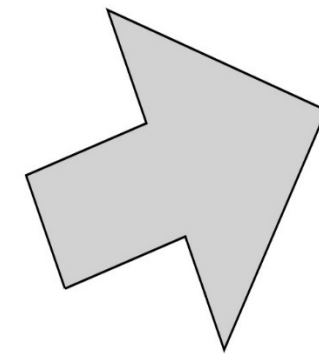
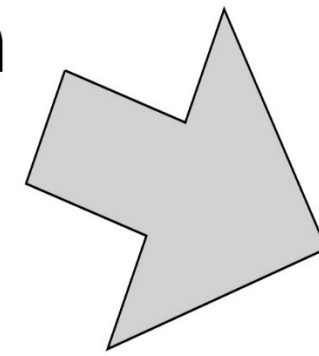
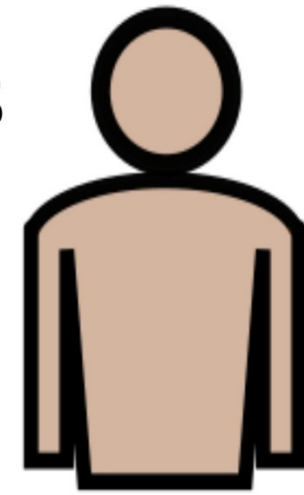
Coscientiousness

Agreeableness

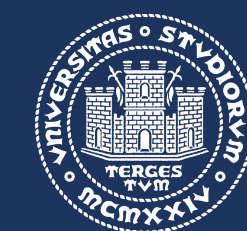
Extroversion

Openness

Neuroticism



Thank you!



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