

Introduction - Background



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K-Fans, la maglia da calcio con l'Al

Monitora allenamenti e prestazioni. Chi vorrà potrà condividere i dati delle proprie performance in un database mondiale a disposizione di scout e procuratori

Technological innovation is revolutionizing the sports world in the constant search for excellence.





Introduction - Background



Politecnico is actively involved in research in the sports sector.

Labs

- Human Performance Lab
- E4Sport

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900 prove in Galleria del vento per il campione del mondo di ciclismo TOP GANNA







Human Performance Lab (Lecco)



Functional evaluation of healthy subjects, athletes, paralympic athletes.

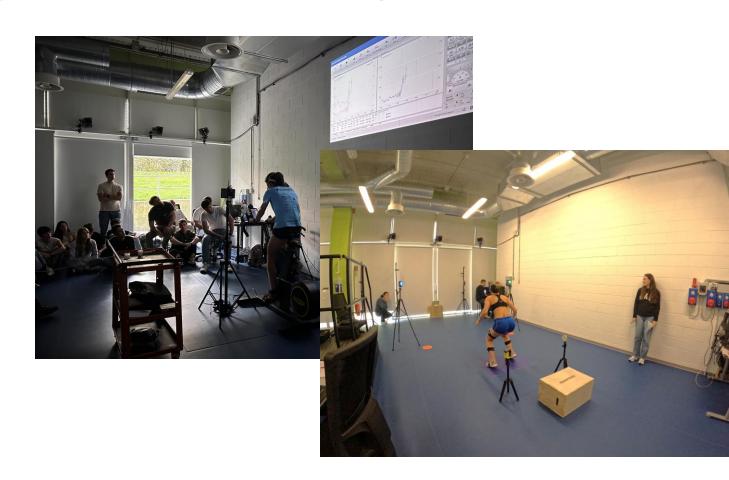
Collaboration with sports clubs and companies. Research and teaching.

Biomechanics of sport

Athlete-equipment interaction analysis

Effect of perturbations on human balance and locomotion

Study of athletic and motor-cognitive performance





Human Performance Lab (Lecco)



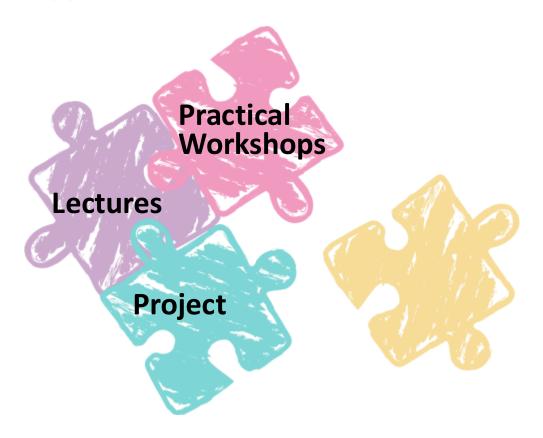
Multisport Simulator



The course



To transmit complete and up-to-date skills on technological innovation applied to sport with a practical and experiential approach



The course - topics



Design and study of sports equipment

Cognitive evaluation of athletes and performance

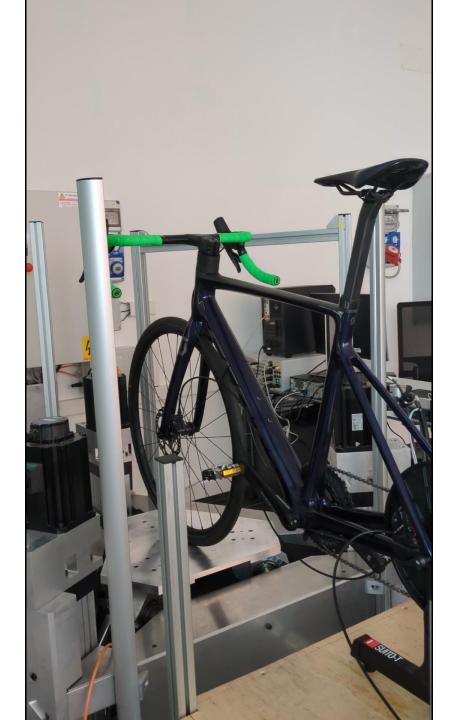
Motion analysis, wearable sensors, optoelectronic systems

Lesson 1

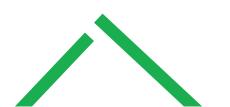


Practical sessions

Analyzing sports equipment under the influence of vibrations

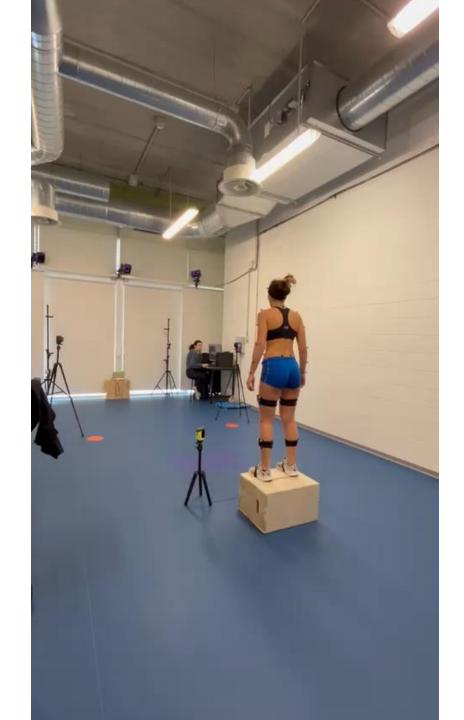






Practical sessions

Characterization of a sports gesture through movement analysis







Practical sessions

Cognitive tests to assess athletes' cognitive abilities









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