April 14th, 2025 – 14:30
Room B101, Building B, Dalmine Campus

Application of machine learning techniques in biomechanics: best practices for a correct estimation

The seminar explores best practices in applying machine learning (ML) to biomechanics, highlighting its potential in human movement analysis. It will cover movement classification techniques and regression models for estimating biomechanical parameters. Through case studies, participants will learn how ML can enhance performance in athletic and clinical settings. The seminar will also address challenges and ethical considerations in integrating ML into biomechanical research.
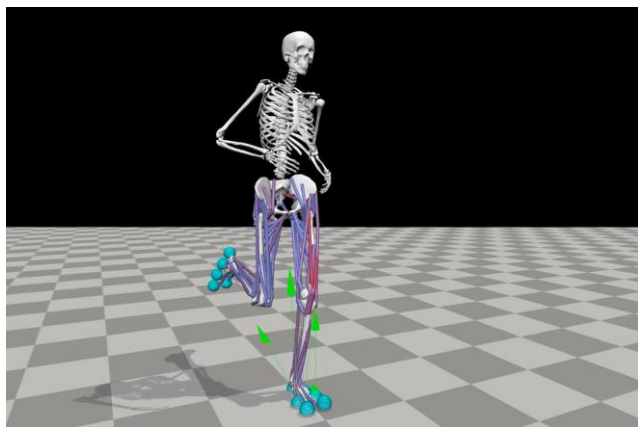

SPEAKER

Dr. Beatrice De Lazzari
Università degli Studi di Roma «Foro Italico»

Beatrice De Lazzari received the B.S. degree in Electronic Engineering at Roma Tre University with 110/110 in 2019 and the M.S. degree in Biomedical Engineering at Roma Tre University with 110/110 cum laude in 2021. In October 2024, she defended her PhD thesis regarding advanced technologies and data mining techniques for the training and injury risk prevention of non-professional footballers at University of Rome "Foro Italico", under the supervision of prof. Giuseppe Vannozzi. Since October 2024, she has been working as a research fellow on the same topic, in collaboration with GoSport s.r.l., which co-funded her PhD.