



POLITECNICO  
DI TORINO

# TORINO2015

## on/CAMPUS

III Level Course

### THE FUTURE OF SPORTS: TRANSLATING TECHNOLOGY INTO PERFORMANCE

Politecnico di Torino

September 7<sup>th</sup> - 11<sup>th</sup> 2015 - Denina Room (DISAT)

This course will focus on the role of technologies in improving sport performance, athletes' safety and spectators' enjoyability. Physiological parameters monitoring, performance analytics and advanced materials for sports will be explored. Examples will be given to show the state of the art as well as some potential future directions of selected technologies to enhance athletes performance, to prevent injuries and to transform sport into a 'connected experience' for a global audience.

Attendees will be asked to analyse current sport specific challenges and to develop their technological solutions.

#### Sept. 7th

9.00-12.00  
14.30-17.30

Introduction to thermal comfort analysis - Ada Ferri (Politecnico di Torino)  
The influence of environment on sports performance - Alessandro Pezzoli (Politecnico di Torino)

#### Sept. 8th

10.30-12.30  
14.00-17.00

The potential of bio-inspired materials in sports equipment -  
Federico Bosia (Università di Torino) e Nicola M.Pugno (Università di Trento)  
Advanced materials for winter sports, part 1 - Martino Colonna (Università di Bologna)

#### Sept. 9th

9.00-12.00  
14.00- 17.00

Advanced materials for winter sports, part 2 - Martino Colonna  
Physiology of sports performance, part 1 - Davide Susta (Dublin City University)

#### Sept. 10th

9.00-12.00  
14.00- 16.00

Physiology of sports performance, part 2 - Davide Susta  
Technologies to enhance athlete's performance and prevent injuries - Davide Susta

#### Sept. 11th

9.00-12.00

Student's presentations and assessment

Information & registration:  
eventi@polito.it

[www.torino2015oncampus.it](http://www.torino2015oncampus.it)



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