


1ST ISEA WINTER CAMP IN SPORTS ENGINEERING

February 28th – March 4th, 2016
San Martino di Castrozza (Italy)

<http://www.dii.unipd.it/corsi/summer-and-winter-schools/winter-school-sports-engineering>

ISEA Winter School in Sports Engineering 

The Camp will focus on safety and performance issues in **Winter Sports**, providing students with the opportunity to enhance their knowledge and expertise on **ski and snowboard**, especially in relation to the **effect of different equipments or techniques**, with the opportunity of conducting a **pilot research project**. Under the leadership of Professors active in the field of Sports Engineering, several *technical sessions* will be carried out with in order to answer to a set of research questions corresponding to the different projects. During the *field test sessions* on the slopes, equipments and data collection systems will be used in the unique environment of Pale di San Martino.

ORGANIZING COMMITTEE:

Dr. Nicola Petrone (Host)
Department of Industrial Engineering
University of Padova (Italy)
Tel.: +39 049 8276761
Fax: +39 049 8276785
E-mail: nicola.petrone@unipd.it

Prof. Uwe Kersting
Aalborg University (Denmark)
Prof. Matej Supej
University of Ljubljana (Slo)
Prof. Nico Kurpiers
University of Hildesheim (Ger)

Dr. Riccardo De Filippi
MotoriaLab (Italy)

COURSE LOCATION: Hotel Fratazza, San Martino di Castrozza

PRELIMINARY PROGRAMME:

Topics: Instrumentations for Field Data Collection, Field Motion Capture Techniques, Biomechanical Modeling, Paralympic skiing.

Techniques: Experimental Methods (Ski-Snowboard Load Cells, Pressure Insoles, IMU sensors, GNSS).

Field Data Analysis: Upload of Field Data and Preliminary Analysis: teachers will assist in the re-analysis of the data collected on the field.

TEST SESSIONS: Time spent on the slopes, divided into groups. Field data collection and equipment comparative evaluation.

(Ski-snowboard load cells, Pressure Insoles, IMU sensors...) (Ski - Boot - Snowboards comparative evaluation...)

The students will be asked to cover the cost of 5 nights' accommodation from February 28rd to March 4th at Hotel Fratazza. At the moment, a total number of 15 students will be admitted to the Camp.

Registration : nicola.petrone@unipd.it
General info: nicola.petrone@unipd.it

