





International Winter School

MACHINE AND DEEP LEARNING FOR NEUROLOGICAL DISEASES

3rd-7th December 2018  Fondazione Mondino
via Mondino 2, Pavia (Italy)

 UNIVERSITÀ
DI PAVIA

 BIODATA SCIENCE
CENTER

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FONDAZIONE
MONDINO
Istituto Nazionale di Neuroscienze
e di Scienze Neurologiche (IRCCS)

Lab title:

Pre-processing and processing of EEG data

Claudio Campus

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In this lab session, we will take a short overview of a possible pipeline aimed at extracting reliable functional information from raw EEG data. We will consider pre-processing of EEG data and analysis both at subject and group level. We will explore in a critical way the influence that different strategies, choices and parameters have on the reliability of the final results. The pipeline will be mostly in the Matlab environment (also involving specific toolboxes, like EEGLab) and possibly R environment for the advanced statistical modelling of EEG data and of their relationship with behavioural data.