UNIWERSYTET WARSZAWSKI | CeNT CENTRUM NOWYCH TECHNOLOGII

invites to a seminar by

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Machine Learning for Bioinformatics

14th of June 2019 at 12.30 p.m.

Venue: Centre of New Technologies, Banacha 2C,
Lecture Hall 0142 (Ground floor)

Host: Prof. Dariusz Plewczyński

Supervised and unsupervised pattern classification are important Machine Learning techniques which have wide range of applications. While supervised classification techniques use training samples to find the class information of test samples, unsupervised classification partitioning a given data set into homogeneous groups based on some similarity/dissimilarity metric.

In the first part of the lecture first we will discuss about some important algorithms belong to both supervised and unsupervised patter classification along with their advantages and disadvantages. Subsequently we will discuss how to improve that.

In the second part of the lecture we will discuss the application of classification techniques for solving certain problems in Bioinformatics. In this regard some result will be demonstrated for clustering of Micro Array Gene Expression Data, protein multifunction prediction and MicroRNA-mRNA target prediction.