

About hierarchical correlation reconstruction, multi-feature Granger causality, and others

Sunday 3 December 2023 10:55 (20 minutes)

While machine learning is usually focused on prediction of values, on various applications I will introduce to simple family of methods to work with learned probability distributions - e.g. model joint, predict conditional, their time evolution. One proposed application direction will be multi-feature Granger causality, enhancing the standard method with evaluation of propagation speed, and automatic extraction of multiple types of dependencies for example in EEG data. There will be also proposed its application to build artificial neurons updating model of joint distribution of its connections.

Author: DUDA, Jarek (Jagiellonian University)

Presenter: DUDA, Jarek (Jagiellonian University)

Session Classification: Neural Networks