

SEMINARIO

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HIGH-DIMENSIONAL GRAPHICAL MODELLING USING TREES AND FORESTS

Abstract

The seminar will describe some methods allowing the application of mixed graphical models (hybrid Markov networks) to high-dimensional datasets. These are based on (i) various extensions to the Chow-Liu algorithm and (ii) a greedy algorithm to find the strongly decomposable model with minimum AIC/BIC. The former is highly efficient and the latter less so. The methods are implemented in an R library, gRapHD, and will be illustrated using some biological data set.

Reading material:

Edwards et al. *BMC Bioinformatics* 2010,11:18 <http://www.biomedcentral.com/1471-2105/11/18>

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**Martedì 28 settembre 2010 aula 11 - 1° piano
dalle ore 10:00 alle ore 12:00**

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