



SUMMONS

2011-10-24

LUND UNIVERSITY

School of Economics and Management

Department of Statistics

## SEMINAR

Wednesday 9 November 2011 at 13.15 in room Alfa1-1048.

Timo Koski, KTH Royal Institute of Technology

*Bayesian Predictive Classification: some new methods*

*A general Bayesian classification framework is introduced for data from multiple finite alphabets using predictive representations based on random urn models and generalized exchangeability. We present a principle of supervised and semi-supervised probabilistic classification, which has attractive theoretical properties and is illustrated to achieve better correct classification rates in numerical examples. Optimal simultaneous and marginal supervised predictive classifiers are shown to become equivalent classification rules under generalized exchangeability when the amount of training data increases. This is joint work with Jukka Corander, Yaqiong Cui, and Jukka Sirén, all affiliated with the University of Helsinki.*

Welcome!