## **FURTHER EDUCATION AND TRAINING**



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**ANNOUNCEMENT** 

JOINT GUEST LECTURE OF BAGSS AND LIFBI

## **GUEST LECTURE**

## On a Latent Variable Modeling Approach to Examining Population Heterogeneity in Finite Mixture Settings

Guest: Professor Tenko Raykov, Ph.D., Michigan State University

Date: Thursday, December 8, 2016

Time: 14:00-16:00 (s.t.)

Place: Room 104, LIfBi, Wilhelmsplatz 3

## **Abstract**

A latent variable modeling procedure for examining whether a studied population could be a mixture of 2 or more latent classes is discussed. The approach can be used to evaluate a single-class model against competing models of increasing complexity for a given set of observed variables without making any assumptions about their within-class interrelationships. The method is helpful in initial stages of finite mixture analyses to assess whether models with 2 or more classes should be subsequently considered as opposed to a single-class model. The discussed procedure is illustrated with a numerical example.

Keywords: conditional independence, latent class analysis, model selection, single-class model, unobserved heterogeneity, within-class model