

Department of Decision Sciences

Statistics Seminar

Component-based Approaches to Multi-block Path Modeling

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Abstract

In this talk, we present some component-based approaches to the predictive modeling of networks of relationships between latent variables in a multi-block framework where the focus is on the estimation of factor scores starting from blocks of manifest variables. We refer to Partial Least Squares Path Modeling but also to its most recent variants and alternatives. In this framework, we consider several theoretical and methodological issues related to the various modeling steps with a specific discussion on the estimation of outer weights and the dimensionality of latent variables. Finally, we provide insights on the algorithms, the statistical criteria optimized by the different approaches and their practical relevance.