



Department of Decision Sciences

Statistics Seminar

Model selection for different purposes

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Abstract

The selection of a suitable model, including the selection of regression variables, is central to any good data analysis.

In the first part of this talk I will explain different criteria for model selection, such as AIC, BIC, with a deeper understanding of where they originate, what they intend to optimize, and how they should be understood and used. Next, I will consider a more directed model search for selecting a model that gives a good estimator of a 'focus'. This leads to the focussed information criterion. This criterion is discussed first in the setting with the number of variables small relative to the sample size, and next in a setting with a large number of variables.

Data examples will be worked out and discussed.

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