

Date & Time

8th March 2019, Friday @ 3.15 pm

Venue

Al-Farabi Seminar Room, Second Floor,
INSPEM

Presenter

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Topic

Information-theoretic Approach for Model Selection and Multi-model Inferences using R Platform in Ecological Studies

Abstract

In this presentation, a brief introduction about the information-theoretic (IT) approaches in the analysis of empirical data will be given. The commonly used t-tests and ANOVA tables can be replaced by IT approaches. These methods allow the data-based selection of a “best” model and a ranking based on AIC (Akaike’s information criterion) and weighting of the remaining models in a pre-defined set. Traditional statistical inference usually based on this selected best model. However, now IT allows formal inference to be based on more than one model (a set or plausible models or multi-model inference). In many cases, such procedures lead to more robust inferences. Two examples of case studies in behavioural ecology will be presented to learn the application of IT using R platform.

Keywords: information-theoretic, model selection, multi-model inference, behavioural ecology