

Colloquium

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Regression trees for subgroup identification with multivariate responses

In the fight against hard-to-treat diseases, it is often difficult to discover new treatments that benefit all patients. A goal of personalized medicine is to identify subgroups of patients for whom a treatment has an enhanced effect. Several regression tree solutions have been proposed recently for a single response variable. This talk will introduce a new method suitable for multiple or longitudinal responses. It is illustrated with applications to comparing drugs for treating Type 2 diabetes and interventions for increasing breast cancer screening awareness.