THE UNIVERSITY OF CHICAGO

Department of Statistics
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Growth Curve Models

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ABSTRACT

A host of exciting analytic methods for studying between- person difference in within-person change are broadly organised under the term growth curve models. In the modelling of plant growth, the growth curve for each plant as a random Brownian Motion is proposed. The presentation covers the canonical version of the model, the methods of estimating parameters, covariance structure, computation and prediction. Using log likelihood for model comparison, we get a satisfactory fit and best linear predictor.