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Mixed-effects models in S and S-PLUS | Jose C. Pinheiro ...
A model with both fixed effects and random effects is called a mixed-effects model. View Theory and computational methods for linear mixed-effects models, mixed-effects models in S and S-PLUS

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As such all models with random effects also contain at least one fixed effect. Therefore, a model is either a fixed effect model (contains no random effects) or it is a mixed effect model (contains both fixed and random effects). Mixed effects models are often referred to as mixed models.

Mixed Models: Models

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Mixed models are especially useful when working with a within-subjects design because it works around the ANOVA assumption that data points are independent of one another. In a within subjects design, one participant provides multiple data points and those data will correlate with one another because they come from the same participant.

Chapter 17: Mixed Effects Modeling

A mixed model, mixed-effects model or mixed error-component model is a statistical model containing both fixed effects and random effects. These models are useful in a wide variety of disciplines in the physical, biological and social sciences. They are particularly useful in settings where repeated measurements are made on the same statistical

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units, or where measurements are made on clusters of related statistical units. Because of their advantage in dealing with missing values, mixed effects

Mixed model - Wikipedia

The NLME library for analyzing mixed-effects models in S and S-PLUS, developed by the authors, provides the underlying software for implementing the methods presented. This balanced mix of real data examples, modeling software, and theory makes the book a useful reference for practitioners who use, or intend to use, mixed-effects models in their data analyses.

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Linear mixed-effects models are extensions of linear regression models for data that are collected and summarized in groups. These models describe the relationship between a response variable and independent variables, with coefficients that can vary with respect to one or more grouping variables. A mixed-effects model consists of two parts, fixed effects and random effects.

Linear Mixed-Effects Models - MATLAB & Simulink

Linear mixed models are an extension of simple linear models to allow both fixed and random effects, and are particularly used when there is non independence in the

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data, such as arises from a hierarchical structure. For example, students could be sampled from within classrooms, or patients from within doctors.

Introduction to Linear Mixed Models

Nonlinear mixed-effects models constitute a class of statistical models generalizing linear mixed-effects models. Like linear mixed-effects models, they are particularly useful in settings where there are multiple measurements within the same statistical units or when there are dependencies between measurements on related statistical units. Nonlinear mixed-effects models are applied in many ...

Nonlinear mixed-effects model - Wikipedia

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Random effects models include only an intercept as the fixed effect and a defined set of random effects. Random effects comprise random intercepts and / or random slopes. Also, random effects might be crossed and nested. In terms of estimation, the classic linear model can be easily solved using the least-squares method.

Linear mixed-effect models in R | R-bloggers

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