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Orthogonal Arrays for Practical Experimentation

Monday, 16 September 2024 11:00 (30 minutes)

In their simplest form, orthogonal arrays (OAs) are experimental designs where all level-combinations of any two factors occur equally often. As a result, the main effects of the factors are orthogonal to each other. There are also more involved OAs for which the level-combinations of any three factors occur equally often. In such OAs, the main effects are orthogonal to each other as well as to the two-factor interactions. With three practical examples, I show why OAs are so useful. I give pointers to published OAs and I comment on the discrepancy between the rather specialized literature and existing statistical software.

Type of presentation

Talk

Classification

Both methodology and application

Keywords

catalog of designs; design enumeration

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