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Orthogonal Arrays

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November 17, 2021 - 10h30

Abstact

Orthogonal Arrays are a quite recent and not well-known topic in mathematics (started around 1950). While being a really accessible subject, it has some important industrial applications; and the theory behind it is multidisciplinary. This talk will start with an overview of the basic theory of Orthogonal Arrays: definition and some properties. We will then focus on two important questions about Orthogonal Arrays, for which parameters does such an array exist, and how to construct them. To end the presentation, we will make a link between Orthogonal Arrays and Latin Squares.