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## Generation of all randomizations using circuits

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

After a rich history in medicine, randomized control trials (RCTs), both simple and complex, are in increasing use in other areas, such as web-based A/B testing and planning and design of decisions. A main objective of RCTs is to be able to measure parameters, and contrasts in particular, while guarding against biases from hidden confounders. After careful definitions of classical entities such as contrasts, an algebraic method based on circuits is introduced which gives a wide choice of randomization schemes. In this talk, we will introduce and discuss some real-world examples.

### Type of presentation

Talk

### Classification

Mainly methodology

### Keywords

Algebraic methods in Statistics; Generalized A/B testing; Randomizations

**Primary authors:** RAPALLO, Fabio (University of Genova); RICCOMAGNO, Eva (University of Genova); WYNN, Henry P. (London School of Economics)

**Presenter:** RAPALLO, Fabio (University of Genova)

**Session Classification:** SIS Invited session: Stratification, subsampling, randomization, issues and proposals