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Covering arrays and generalizations

In this introductory talk, we survey results on covering arrays and generalizations. A covering array of strength t, k factors, each with v levels, and size n is an $n \times k$ array with entries on $\{1, 2, \ldots, v\}$ such that any t-set of columns contains each of the v^t tuples in some row. Generalizations include: mixed levels, variable strength, forbidden configurations, error-locating arrays, etc. We will spend more time on topics not covered in other talks.