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Random Latin squares and Sudoku designs generation

Roberto Fontana

(Submitted on 16 May 2013)

Uniform random generation of Latin squares is a classical problem. In this paper we prove that both Latin squares and Sudoku designs are maximum cliques of properly defined graphs. We have developed a simple algorithm for uniform random sampling of Latin squares and Sudoku designs. It makes use of recent tools for graph analysis. The corresponding SAS code is annexed.

Subjects: Computation (stat.CO)

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