

## Free Discussion About the Application of Monte Carlo Method on Agricultural Experiment

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### Abstract

Recently, Monte Carlo simulation method has been widely used as an important tool in several areas of scientific research. Due to the factor that Monte Carlo simulation method can establish an ideal environment and materials, it can effectively control the factors and reduce the experimental costs. Moreover, to generate the random number and analysis program with the suitable probability distribution, understanding the characteristics of the study objective is needed.

In this manuscript, besides the points for attention about executing the analysis program, two actual cases about the pest spread of the spatial distribution were used to illustrate as the application of the Monte Carlo computer simulation technology for research. These are expected to provide for agricultural researchers about understanding and application of the Monte Carlo method as the reference.

Key words : Monte Carlo method, Computer Simulation, PseudoRandom Numbers(PRNs)

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