

Free Discussion About Principle and Application of Monte Carlo Method

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Abstract

The Monte Carlo method, a computer simulation technology, is widely used in the field of physics, chemistry, mathematics, and even social sciences. Due to the factor that the different problems depended on the various areas of study objective, the Monte Carlo method can be modified to fit in with the requirement. Thus, several useful tools are developed from the Monte Carlo method, such as the bootstrap method, simulated annealing and genetic algorithms provide more effective problem-solving pipeline.

This article briefly introduces the principle of the Monte Carlo method and its application in various experiments. I hope to provide agricultural researchers on the understanding and application of the Monte Carlo method.

Key words : Monte Carlo method, Bootstrap, Simulated Annealing, Genetic Algorithm

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