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Simulation Problem: In statistical inference, one wishes to estimate unknown population parameters θ (for example, the population mean) using observed sample data. A confidence interval is a random interval calculated from the sample data that contains with a specified probability.

The course provides a comprehensive coverage of fundamental aspects of methods and principles in probability and statistics, as well as linear regression analysis. Real data illustrations with the statistical package R forms an integral part of the course, providing a hands-on experience in simulation and data analysis.

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Statistical inference is the process of using data analysis to deduce properties of an underlying distribution of probability. Inferential statistical analysis infers properties of a population, for example by testing hypotheses and deriving estimates. It is assumed that the observed data set is sampled from a larger population.. Inferential statistics can be contrasted with descriptive statistics.

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