



MEASUREMENT THEORETICAL APPROACH TO REGRESSION ANALYSIS

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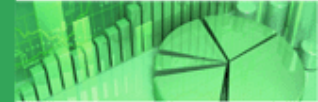
Abstract

To make a unified understanding of statistic theory, we have proposed a measurement theory which is stated with an introduction of two axioms based on the principle in quantum mechanics, Born's probabilistic interpretation and Heisenberg's picture representation of simultaneous measurements. The objective of this paper is to examine regression analyses through the measurement theory.

Keywords and phrases: measurement theory, observables, Fisher's maximum likelihood method, simultaneous measurements, Born's probabilistic interpretation, Heisenberg picture.

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