

# GRADUATE SEMINAR

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## Performance of Bootstrap Confidence Region for Binomial distribution with Unknown parameter $P$ and $M$

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2:30

Zoom

**Abstract:** The goal of this research is to find out the Performance of the bootstrap confidence region of a binomial distribution with unknown parameters. Using chi-square test, to define the rules for Confidence regions of Estimation of  $m$  and  $p$  from binomial distribution by method of moment. The coverage probabilities of confidence region by independent bootstrap method and dependent bootstrap method with different  $k$  maybe not be significantly different. However, the areas of confidence region by independent bootstrap method and dependent bootstrap method with different  $k$  show a trend.

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