

Simultaneous Selection and Estimation of the Largest Normal Mean by Confidence Statement Approach

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Ranking and selection studies have focused primary on selecting the best population. After selecting a population as the best one, it would be desirable to estimate its mean with a confidence interval. We (2011) proposed a procedure of simultaneously selecting the best population and estimating its mean by the indifference-zone approach. However, the procedure tells us nothing when the parameter lies in the indifference zone. In order to overcome its drawback, this presentation will propose a procedure based on the confidence statement approach. An artificial example will be used to illustrate the procedure.

Key Words: Ranking and selection, indifference-zone approach, confidence statement approach, two-stage procedure