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STOPPING TIME ANALYSIS OF TTSP WITH MEASURABLE CHARACTER

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Abstract

The theory of optimal stopping is concerned with the problem of choosing a time to take a particular action in order to maximize an expected gain or minimize expected cost. A key example of optimal stopping problem is the secretary problem. Secretary problem was studied by host of researchers from different angles and using different approaches. Two tailed secretary problem (TTSP) is one of these versions. Detail analysis of TTSP is given by Kane S. P. and Kolhekar S. R. (2006). The analysis is based on two well known random variables X and Y where X indicates 'rank' of selected unit and Y indicates 'position' at which selection is made. In this paper we have carried out stopping time analysis of TTSP with measurable character i.e. marginal distribution of random variable Y.

Key Words : Secretary Problem, Optimality criterion, Measurable character.

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