MEASURE, MANAGE & FACILITATE CHANGE TO HARNESS ORGANIZATIONAL POTENTIAL

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An Agile Optimal Orthogonal Additive Randomized Response Model

Tanveer A. Tarray1

ABSTRACT

In this chapter a new additive randomized response modelhas been proposed. The properties of the proposed model have been studied. It has been shown theoretically that the suggested additive model is b. It than the one envisaged by Singh (2010) under very realistic conditions. Numerical illustrations are also given in support of the present study.

Keywords: Randomized Response Sampling, Estimation of Proportion, Sensitive Variable.

INTRODUCTION

One problem with research on high - risk behavior is that respondents may consciously or unconsciously provide incorrect information. In psychological surveys, a social desirability bias has been observed as a major cause of distortion in standardized personality measures. Survey researchers have similar concerns about the truth of survey results/ findings about such topics as drunk driving, use of marijuana, tax evasion, illicit drug use, induced abortion, shor lifting, child abuse, family disturbances, cheating in exams, HIV/AIDS, and sexual beliavior. The most serious problem in studying certain social problems that are sensitive inn te (e.g. induced abortion, drug usage, tax evasion, etc.) is lack of reliable measure of their incidence or prevalence. Thus to obtain trustworthy data on such confidential matters, especially the sensitive ones, instead of open surveys alternative procedures are required. Such an alternative procedure known as "randomized response technique" (RRT) was first introduced by Warner (1965). It provides the opportunity of reducing response biases due bdishonest answers to sensitive questions. As a result, the technique assures a considerable degree of privacy protection in many contexts. Following the pioneering work of Warner (1965), many modifications are proposed in the literature. A good exposition of developments on tandomized response techniques could refer to Fox and Tracy (1986), Singh and Mathur (2013, 2014). We below give description of the model due to Singh (2010):

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