A Bibliography on Randomized Response: 1965 – 1987

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ABSTRACT

A comprehensive bibliography of books, research reports and published papers, dealing with the theory, application and development of randomized response techniques, includes a subject classification.

KEY WORDS: Survey; Sensitive issues; Confidentiality.

1. INTRODUCTION

The recent increase in requirements for extensive data on sensitive issues, (such as the detailed information on sexual behavior, necessary to study the spread of the AIDS epidemic), has lead to renewed examination of the techniques available for obtaining answers to sensitive questions. The difficulties of applying conventional survey techniques to obtain data on sensitive issues in a large-scalesurvey are well known and several alternative techniques have been proposed – Bradburn and Sudman (1979). The most prominent of these has been the randomized response technique, originally proposed by Warner (1965). The underlying idea is that the respondent uses a random mechanism to select the question to which he answers and the interviewer knows only the response itself, without knowing which question is being answered. This is supposed to reduce biases due to non-response and to response error, by assuring the respondent that his privacy is protected by the method (in that the question he is being asked is unknown to the interviewer) and thereby convincing him to cooperate more readily and to answer more truthfully than he might by a direct question.

Since 1965 a great deal of research into various aspects of the technique has been carried out. This includes theoretical developments, development of new randomization techniques and extensions to quantitative variables, to polytomous questions and to the multivariate case. Problems of estimation, optimization of design parameters and sample design, specific to randomized response, have also been dealt with. A large number of empirical studies using randomized response have been carried out in various application areas, such as studies of drug use, abortions, drunken driving and crime, many of them with some evaluation, often by validation studies. The experience in these studies is very divergent, with some showing marked gains due to the use of randomized response and others showing no gain at all in response rates or in response reliability. Respondents' attitudes to randomized response, their comprehension of the procedure, their perceptions of confidentiality and of the protection that the procedure provides have also been investigated, in attempts to understand the reasons for the differences in the empirical results.

This large body of research is scattered among over 250 theses, research reports, published papers and books, which have appeared, (in at least seven languages), over the last 20 odd years. These include many expository and survey papers and two bibliographies – Kim and

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Flueck (1976) and Daniel (1979) - the latter an annotated one. Three comprehensive books on the subject - Defaa (1982), Fox and Tracy (1986) and Chaudhuri and Mukerjee (1988) - have also appeared. Unfortunately none of these include a fully comprehensive and updated bibliography and the present one is an attempt to correct this lacuna.

Although an attempt has been made to be as comprehensive as possible, by including both published and unpublished papers, the latter are obviously covered only in as far as information about them was available from various sources. In addition, an attempt was made to reduce duplication by excluding unpublished reports or papers presented at meetings whose content is substantially included in a subsequently published paper. However, Ph.D. theses are generally included, since they usually have more detail than the papers derived from them. Papers about other survey methods for dealing with sensitive issues, which can be considered as alternatives to randomized response, are included only if they relate to a comparison of the alternative to randomized response. Papers dealing with randomization techniques to ensure confidentiality of data already collected (such as random rounding or encoding) are not included, unless they also relate to the use of randomization in the collection process itself.

The bibliography is arranged as an alphabetical listing, which gives full citation details in the standard way used for reference lists. Titles are given in the language of the paper or book, if known. Otherwise, for publications not in English, the title is given in English with a designation of the original language in parentheses. Most of the non-English papers include a summary or abstract in English. A series of letter codes on the right edge of the page, opposite each reference, indicates a classification by subject. The classification categories and codes are given below. An author index and a classified listing by subject, not included due to space limitations, are available from the author.

2. SUBJECT CLASSIFICATION CODES

- A Applications and field experiments.
- B Bibliographies and survey papers.
- C Confidentiality, respondent comprehension, attitude and protection.
- E Evaluation of alternative techniques or estimators.
- H Hypothesis testing, estimation and analysis.
- M Multivariate case.
- O Optimization of design parameters.
- P Polytomous questions.
- Q Quantitative variables.
- R Randomization devices and techniques.
- S Sample design.
- T Theoretical developments.
- V Validation studies.
- X Expository papers.

ACKNOWLEDGEMENTS

The author would like to thank the many colleagues and authors of papers on randomized response who reviewed an earlier draft of this bibliography and provided comments, additional references and reprints of their papers. The preparation of this bibliography was partly supported by a National Science Foundation grant (No. SES-8612320).

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APT	ABUL-ELA, A.A. (1966). Randomized response models for sample surveys on human populations. Ph.D. thesis, University of North Carolina, Chapel Hill.
ЕН	ABUL-ELA, A.A., and ABDEL-HAMIED, S.M. (1984). Randomized response ratio estimates: bias and efficiency. Proceedings of the Survey Research Methods Section, American Statistical Association, 794-799.
HQ	ABUL-ELA, A.A., and ABDEL-HAMIED, S.M. (1985). A randomized response ratio estimate from quantitative data. <i>Proceedings of the Social Statistics Section, American Statistical Association</i> , 300-305.
Н	ABUL-ELA, A.A., and DAKROURI, H.M. (1980). Randomized response models: a ratio estimator. <i>Proceedings of the Survey Research Methods Section, American Statistical Association</i> , 205-208.
P	ABUL-ELA, A.A., GREENBERG, B.G., and HORVITZ, D.G. (1967). A multi-proportions randomized response model. <i>Journal of the American Statistical Association</i> , 62, 990-1008.
A	ADHIKARI, A.K. (1982). On randomized response surveys with sensitive quantitative characters: a case study in the Indian Statistical Institute. Technical Report ASC826, Indian Statistical Institute, Calcutta.
внот	ADHIKARI, A.K., CHAUDHURI, A., and VIJAYAN, K. (1984). Optimum sampling strategies for randomized response trials (with discussion). <i>International Statistical Review</i> , 52, 115-125.
QR	AHSANULLAH, M., and EICHHORN, B.H. (1984). On scrambled response of sensitive quantitative data. <i>Proceedings of the Survey Research Methods Section, American Statistical Association</i> , 800-802.
CQ	ALBERS, W. (1982). Simple randomized response procedures with bounded respondent risk for quantitative data. <i>Kwantitatieve Methoden</i> , 8, 35-46.
X	ALEXANDER, J.R. (1978). Probability as an aid in social research: the randomized response technique. <i>Mathematical Spectrum</i> , 11, 10-13.
CPT	ANDERSON, H. (1975). Efficiency versus protection in randomized response designs. Ph.D. thesis, University of Lund, Sweden.
CQT	ANDERSON, H. (1976). Estimation of a proportion through randomized response (with discussion). <i>International Statistical Review</i> , 44, 213-217.
CQT	ANDERSON, H. (1977). Efficiency versus protection in a general randomized response model. <i>Scandinavian Journal of Statistics</i> , 4, 11-19.
MT	BARKSDALE, W.B. (1971). New randomized response techniques for control of non-sampling errors in surveys. Ph.D. thesis, University of North Carolina, Chapel Hill.
ЕМО	BARKSDALE, W.B. (1975). New randomized response techniques for control of non-sampling errors in surveys. <i>Proceedings of the Social Statistics Section, American Statistical Association</i> , 302-304.
AEV	BARTH, J.T., and SANDLER, H.M. (1976). Evaluation of the randomized response technique in a drinking survey. <i>Journal of Studies in Alcoholism</i> , 37, 690-693.
ТН	BASULTO, J. (1982). The randomized response design of Warner: a superpopulation model (In Spanish). <i>Estadistica Española</i> , 96, 51-61.

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AE	STEM, D.E., and LAMB, C.W. (1981). The marble-drop technique: a procedure for gathering sensitive information. <i>Decision Science</i> , 12, 702-707.
AEMQ	STEM, D.E., and STEINHORST, R.K. (1984). Telephone interview and mail questionnaire applications of the randomized response model. <i>Journal of the American Statistical Association</i> , 79, 555-564.
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HR	TAKAHASI, K., and SAKASEGAWA, H. (1977). A randomized response technique without making use of any randomizing device. <i>Annals of the Institute of Statistical Mathematics</i> , 29, 1-8.
CEM	TAMHANE, A.C. (1977). A randomized response technique for investigating several sensitive attributes. <i>Proceedings of the Social Statistics Section, American Statistical Association</i> , 273-278.
AEHM	TAMHANE, A.C. (1981). Randomized response techniques for multiple sensitive attributes. Journal of the American Statistical Association, 76, 916-923.
AEV	TRACY, P.E., and FOX, J.A. (1981). The validity of randomized response for sensitive measurements. <i>American Sociological Review</i> , 46, 187-200.
В	VERDOOREN, L.R. (1976). Loten bij delicate vragen: een overzicht van "randomized response" technieken. <i>Statistica Neerlandica</i> , 30, 7-24.
EHRT	WARNER, S.L. (1965). Randomized response: a survey technique for eliminating evasive answer bias. <i>Journal of the American Statistical Association</i> , 60, 63-69.
MQRT	WARNER, S.L. (1971). The linear randomized response model. <i>Journal of the American Statistical Association</i> , 66, 884-888.
CEOT	WARNER, S.L. (1976). Optimal randomized response models (with discussion). <i>International Statistical Review</i> , 44, 205-212.
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