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HUMAN FACTORS ENGINEERING

BIBLIOGRAPHIC SUPPLEMENT

NUMBER 1

A BIBLIOGRAPHY ON THE USE OF INFORMATION THEORY IN PSYCHOLOGY (1948-1966)

Prepared by

DEPARTMENT OF DEFENSE
HUMAN FACTORS ENGINEERING INFORMATION ANALYSIS CENTER

Institute for Psychological Research
Tufts University

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Prepared by

E. M. Johnson

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ABSTRACT

This bibliography contains 756 citations of work that has been done relevant to psychology in information theory. Information theory is distinguished from the broader disciplines of communication theory and cybernetics by the use of a particular measure of amount of information.

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A BIBLIOGRAPHY ON THE USE OF INFORMATION THEORY IN PSYCHOLOGY (1948-1966)

INTRODUCTION

The first comprehensive treatment of the statistical theory of communication appeared in two papers published by Claude Shannon in 1948 (643). The potential value of information theory to psychology was soon recognized. This recognition was accelerated by Miller and Frick's paper in 1949 (484) outlining some possible applications of information theory in psychology. In the ensuing eighteen years a scattered and heterogeneous literature utilizing information theory to study psychological problems has come into being. Articles relevant to psychology have appeared in over 75 journals and 25 symposia.

Information theory is distinguished from the broader disciplines of communication theory and cybernetics by the use of a particular measure of amount of information, amount of information being measured by the minimum number of binary digits or choices in which an event can be coded. The present bibliography is an attempt to index the literature relevant to psychology which utilizes this measure for the period beginning with Shannon's papers in 1948 and ending in December 1966.

Previous bibliographies of information theory by Baker (50, 51) and Stumpers (674, 675, 676, 677) have been primarily concerned with engineering applications. Luce (438) has compiled the only bibliography primarily concerned with application in psychology and covers the literature through early 1956.

SCOPE

To limit the bibliography to manageable proportions several restrictive criteria for inclusion were used.

First, only articles which use information measures are included. To meet this criterion the article had to be accessible, as the terminology of information theory has proven more popular than information measures. Although several articles could not be tracked down, most of the articles which appeared relevant were located.

Second, all theses and dissertations were excluded.

Third, the foreign literature was not systematically searched and foreign language reports are excluded. However, the British, Canadian, and Japanese (in English) journals were extensively searched.

Fourth, only that part of the engineering, mathematics, and physiology literature which is relevant to applications in psychology was included.

CONDUCT OF THE SEARCH

Psychological Abstracts were screened from January 1949 to June 1967. Approximately 300 articles were retrieved. The search then followed the cyclic process of screening the references of each article included. In addition, the files of the Human Engineering Information and Analysis Service were screened. Over 3000 articles were examined and when the search was terminated, there was about 95 percent overlap in the total references of each new article.

It is estimated that about 90 percent of the relevant literature is included. It is felt that the areas in which the bibliography are weakest are language, speech, and the 1966 literature.

DERIVATION OF THE INDEX

The index was derived from the bibliography and reflects the structure of the literature rather than any theoretical viewpoint. The literature tends to fall into relatively discrete categories. If three or more articles dealt with the same topic a category was created. This resulted in categories of widely disparate size; ranging from Perception/Visual Search with three articles to Perception/Absolute Judgments with 83. Within the major categories, there is no cross-coding between subcategories. The use of categories derived from the bibliography resulted in very little cross-coding between categories (less than 1%).

Coding is by area of application of information theory rather than by substantive content of the article. For example:

> McGill, W. Serial effects in auditory threshold judgments. J. exp. Psychol., 1954, 53, 297-303.

is coded to Perceptual-Motor Skills/Sequential Response Constraints.

To use the bibliography, consult the Index to determine descriptors of interest, then turn to Facsimile of Subject Matter File to locate the report accession numbers pertinent to the descriptor(s).

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13. ABSTRACT

This bibliography contains 756 citations of work that has been done relevant to psychology in information theory. Information theory is distinguished from the broader disciplines of communication theory and cybernetics by the use of a particular measure of amount of information.

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