COMPUTER STUDIES

in the Humanities and Verbal Behavior

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Bibliography for a Science of Language

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In an earlier article in this journal, entitled "History as Language," I undertook to make the case for comprehending 'high cultural' phenomena as pre-eminently linguistic and, further, to suggest how the study of language might be fitted within certain scientific approaches to communication. That article was meant to be the first of a series. This piece of work is meant to be the second in that series. Taken as a whole, this series of articles is meant to provide a research orientation to a science of language; 'science of language' is here meant to be clearly distinguished from linguistics, even though linguistics is perceived of as one aspect of such a science. In a general way the concept of language science being developed here is consonant with that expressed (sometimes under the heading 'a science of symbolic behavior' or 'a science of symbol systems') in Language Research and the Computer *by Sally Yeates Sedelow and Walter A. Sedelow, Jr., published in 1972 at The University of Kansas.*

The scope of these articles is such as to include discussion of theory and models, of instrumentation, of techniques, of bibliography, and of findings, all relevant to a science of symbolic behavior. One focus of this work is on complex cultural behavior as language behavior — e.g., history as language, science as a social dialect, and the like. As I attempt to suggest ways of algorizing the study of language so as to make it rigorously scientific in a narrow sense of that term, I shall undertake to present comparisons between traditional and computer-based analyses of large bodies of texts (i.e., very long linguistic strings, even longer than those now studied in sustained discourse analysis).

The primary emphasis of this particular article is orientation by way of bibliography. Much of the bibliographical content is to be found in somewhat different form in Language Research and the Computer.

As individuals the way in which we relate to our environments, including other people, is very heavily affected by our experiences and uses of language; taken as groups, we get the direction and shape of our behavior very largely from symbols, and that is notably true in large, urbanized, and industrialized societies. Hence, the first of the bibliographies which follow provides access to literature on cybernetics. From that literature comes some of the most scientifically powerful ideas that we have for comprehending the social roles of language.

If we wish to make the study of language a fully scientific activity in a comprehensive way, then it is important that, in a very straightforward and conventional sense, we know how to measure language. Language as measured objects is the subject of the bibliography entitled "Selected Items from an Inventory of Measures of Language." It is a source of information on the different types of units which have been used, or can be used, in measuring language, and it is also a source of information on results of such measuring.

The third bibliography, "Some Selected Background Items in the Literature on Computational Linguistics, Information Retrieval, and Network Computation," is intended to facilitate access to research which has been at the intersection of linguistics and computer science, with some special attention to network computation for collaborative research activities. Not surprisingly, there is, conceptually, overlap between this bibliography and the second bibliography.

The final bibliography in this group, "Some Selected Background Items in the Contemporary Literature on the Sociology of Language," is meant to pull together references to an extensive sampling of research literature bearing on the reciprocal interactions between linguistic behavior

variables and other social variables.

The theoretical orientation and intellectual mortar which bind together the studies of which these bibliographies are a part are components for a cybernetic sociology of civilizations. We have in the evolution of these bibliographical references a part of the unfolding of a scientific study of what makes and sustains a civilization, and, more particularly, how through a cybernetic theory we may come to understand the societal consequences of differential uses of symbols. The utilization of the computer in this research is in part directed toward the exact characterization of complex cultural behavior, with David Hume's History of England *as one case study.*

We employ the computer as instrumentation needed in getting exact measurements of complex verbal behavior (e.g., of Hume's History*). Such computer-assisted analyses of major cultural performances make use where possible of rigorously formalist developments in linguistics and of the research of information retrievalists, as well as building on pre-computer scholarship in the precise characterization of literary texts. The scale of the task necessitates the use of the most advanced computational apparatus, including network computing. All such verbal behavior, however complex and artful it may be, is to be understood as social phenomena — with new models needed for that understanding to be fostered in the turf of the sociology of language. These efforts at a scientific understanding of the way in which people in societies are critically directed in their behavior through the central nervous system processing of verbal symbol energy inputs lead us to grapple with the problems of building systems-scientific (cybernetic) theory, models, simulations of those patterns of behavior which we call civilization, and how they are sustained or changed.*

In developing the bibliography for a science of language, as, in turn, a component in a science of civilization, I have drawn on numerous and exceptionally varied sources. Among them I should particularly like to cite the notable aid I have derived for the earlier bibliographical accomplishments of my former colleague H. Thomas Odum (on systems research in ecology), of Dell Hymes (on the research at the intersection of linguistics with social science), and of Richard Bailey, Dolores Burton, and Lubomir Dolezel (on computational stylistics).

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II. SELECTED ITEMS FROM AN INVENTORY OF MEASURES OF LANGUAGE

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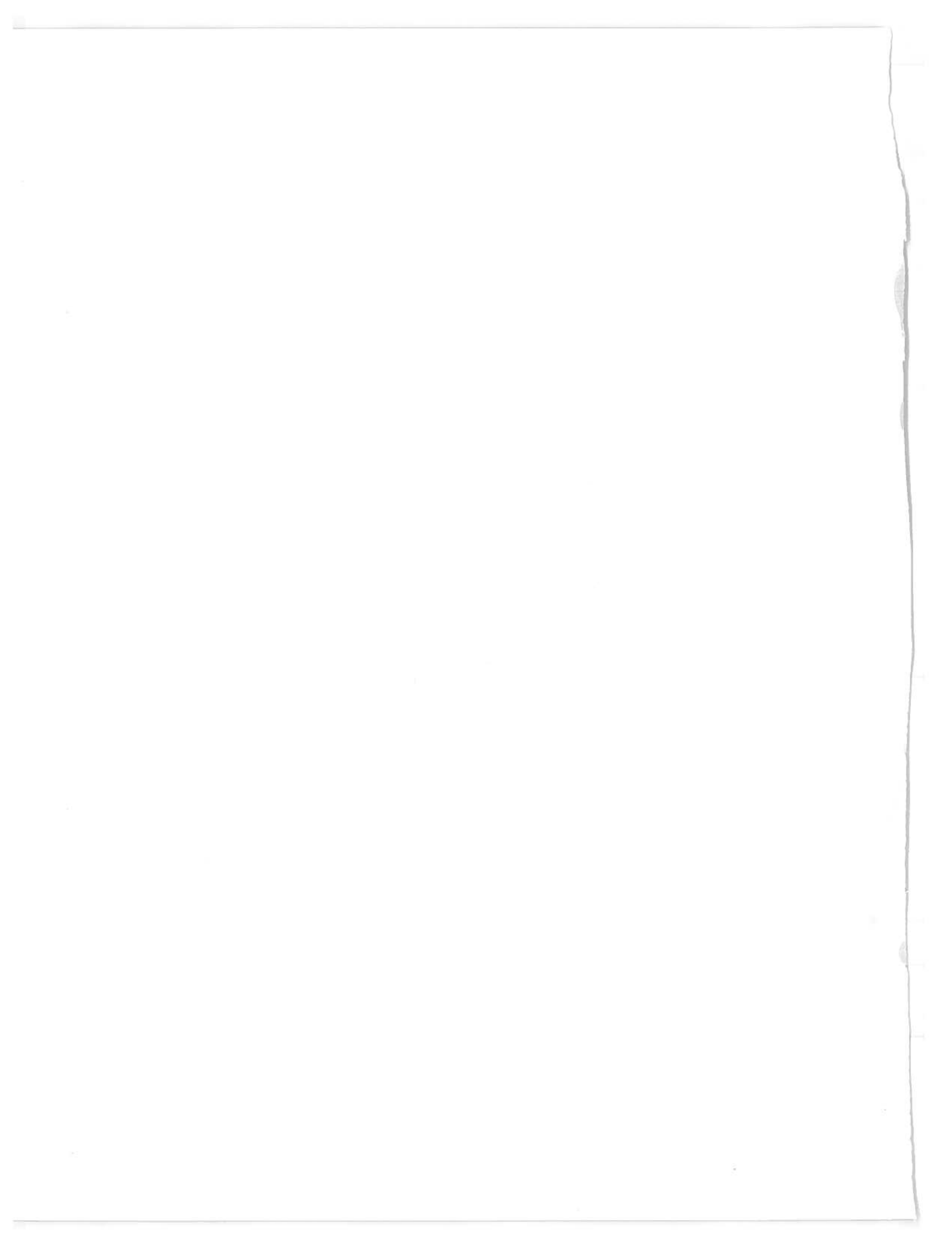
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Contents