

Initial Specifications

The system should:

- (1) accept continuous speech
- (2) from many
- (3) cooperative speakers,
- (4) in a quiet room
- (5) over a telephone,
- (6) allowing moderate tuning of the system per speaker,
- (7) but requiring only natural adaptation by the user,
- (8) permitting a vocabulary of 10,000 words,
- (9) but with strong syntactic
- (10) and semantic support,
- (11)
- (12)
- (13) tolerating less than 10% semantic error,
- (14) in a few times real time,
- (15) on a dedicated system with 10^5 instructions per second
- (16) *
- (17) *
- (18) *
- (19) and be demonstrable in 1973 with a moderate chance of success.

Final Specifications

The system should:

- (1) accept continuous speech
- (2) from many
- (3) cooperative speakers of the general American dialect,
- (4) in a quiet room
- (5) over a good quality microphone,
- (6) allowing slight tuning of the system per speaker,
- (7) but requiring only natural adaptation by the user,
- (8) permitting a slightly selected vocabulary of 1,000 words,
- (9) with a highly artificial syntax,
- (10) and a task like the data management or computer status tasks (but not the computer consultant task),
- (11) with a simple psychological model of the user,
- (12) providing graceful interaction,
- (13) tolerating less than 10% semantic error,
- (14) in a few times real time,
- (15)
- (16)
- (17)
- (18)
- (19) and be demonstrable in 1976 with a moderate chance of success.

Speech Understanding Systems Final Report Of A Study Group

Alexander Waibel, Kai-Fu Lee



Speech Understanding Systems Final Report Of A Study Group:

Speech-understanding Systems: Final Report of a Study Group, 1971 **Speech Understanding Systems** Allen Newell, 1973 **Speech Understanding Systems**, 1973 *Readings in Speech Recognition* Alexander Waibel, Kai-Fu Lee, 1990-12-25 After more than two decades of research activity speech recognition has begun to live up to its promise as a practical technology and interest in the field is growing dramatically *Readings in Speech Recognition* provides a collection of seminal papers that have influenced or redirected the field and that illustrate the central insights that have emerged over the years The editors provide an introduction to the field its concerns and research problems Subsequent chapters are devoted to the main schools of thought and design philosophies that have motivated different approaches to speech recognition system design Each chapter includes an introduction to the papers that highlights the major insights or needs that have motivated an approach to a problem and describes the commonalities and differences of that approach to others in the book **The Quest for Artificial Intelligence** Nils J. Nilsson, 2009-10-30 Artificial intelligence AI is a field within computer science that is attempting to build enhanced intelligence into computer systems This book traces the history of the subject from the early dreams of eighteenth century and earlier pioneers to the more successful work of today s AI engineers AI is becoming more and more a part of everyone s life The technology is already embedded in face recognizing cameras speech recognition software Internet search engines and health care robots among other applications The book s many diagrams and easy to understand descriptions of AI programs will help the casual reader gain an understanding of how these and other AI systems actually work Its thorough but unobtrusive end of chapter notes containing citations to important source materials will be of great use to AI scholars and researchers This book promises to be the definitive history of a field that has captivated the imaginations of scientists philosophers and writers for centuries **Research in Education**, 1971 *The Computing Teacher*, 1974 *Speech Understanding Systems. Final Report of a Study Group.* Door Allen Newell, Jeffrey Barnett, James W. Forge A.o, 1973 *American Book Publishing Record*, 1977-03-31 Here s quick access to more than 490 000 titles published from 1970 to 1984 arranged in Dewey sequence with sections for Adult and Juvenile Fiction Author and Title indexes are included and a Subject Guide correlates primary subjects with Dewey and LC classification numbers These cumulative records are available in three separate sets **Machinery of the Mind** George Johnson, 1987 **Computer Text Recognition and Error Correction** Sargur N. Srihari, 1985 The objective of this tutorial is to introduce the reader to the methodologies and the knowledge representation techniques currently used in automatic text error correction and text interpretation Aimed at computer researchers interested in developing flexible techniques for text processing and computer vision The selected papers cover a wide context of literature and a wider span of time **Annual Report of the Board of Education of the City and County of New York** New York (N.Y.). Board of Education, 1888 MSAC 74, 1974 *Byte*, 1977 **Speech-Understanding Systems** A. Newell, J. Barnett, J. Forge, C. Green, D. Klatt, CARNEGIE-MELLON UNIV

PITTSBURGH PA DEPT OF COMPUTER SCIENCE.,1971 The report provides an evaluation of the state of the art and a program for research towards the development of speech understanding systems To assess the possibility of such systems four specific tasks were considered and evaluated Problem areas are identified and discussed leading to the conclusions on the technical aspects of the study A possible program for research and development is presented Author **U.S. Government Research & Development Reports** ,1967 *The First [-twenty-fourth] Annual Report of the Year 1872[-1898]* Geological and Natural History Survey of Minnesota,1879 **The Journal of Education** ,1930 **Annual Report of the Commissioner of Education** United States. Office of Education,1885 Annual Report of the Board of Education of the State of Connecticut Presented to the General Assembly ... Connecticut. State Board of Education,1891

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