

### 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  $10^8$  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

**DJ Losen**



## **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 [Speech Understanding Systems. Final Report of a Study Group.](#) [Door Allen Newell, Jeffrey Barnett, James W. Forgie A.o](#), 1973 **Osiris, Volume 38** James Evans, Adrian Johns, 2023-07-18 Perceptively explores the shifting intersections between algorithmic systems and human practices in the modern era How have algorithmic systems and human practices developed in tandem since 1800 This volume of Osiris deftly addresses the question dispelling along the way the traditional notion of algorithmic code and human craft as natural opposites Instead algorithms and humans have always acted in concert depending on each other to advance new knowledge and produce social consequences By shining light on alternative computational imaginaries *Beyond Craft and Code* opens fresh space in which to understand algorithmic diversity its governance and even its conservation The volume contains essays by experts in fields extending from early modern arithmetic to contemporary robotics Traversing a range of cases and arguments that connect politics historical epistemology aesthetics and artificial intelligence the contributors collectively propose a novel vocabulary of concepts with which to think about how the history of science can contribute to understanding today s world Ultimately *Beyond Craft and Code* reconfigures the historiography of science and technology to suggest a new way to approach the questions posed by an algorithmic culture not only improving our understanding of algorithmic pasts and futures but also unlocking our ability to better govern our present [Computer Vision Systems](#) Allen Hanson, 1978-01-01 *Computer Vision Systems* is a collection of papers presented at the Workshop on Computer Vision Systems held at the University of Massachusetts in Amherst Massachusetts on June 1 3 1977 Contributors discuss the breadth of problems that must be taken into account in the development of general computer vision systems Topics covered include the application of system engineering techniques to the design of artificial intelligence systems representation and segmentation of natural scenes and pragmatic aspects of machine vision Psychophysical measures of representation and interpretation are also considered This monograph is divided into four sections Issues and Research Strategies Segmentation Theory and Psychology and Systems The first chapter explores the problem of recovering the intrinsic characteristics of scenes from images along with its implications for machine and human vision The discussion then turns to special purpose low level vision systems that can be flexibly reconfigured as the need arises design development and implementation of large systems from the human engineering point of view and representation of visual information The next section examines hierarchical relaxation for waveform parsing the topology and semantics of intensity arrays and visual images as spatial representations in active memory The use of edge cues to recognize real world objects is also analyzed This text will be a useful resource for systems designers computer engineers and scientists as well as psychologists [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

*Die Suche nach Künstlicher Intelligenz* Nils J. Nilsson,2014-07-15 Künstliche Intelligenz KI ist der Bereich der Informatik bei dem es darum geht Maschinen mit fortgeschrittener Intelligenz auszustatten In diesem Buch folgen Sie den Spuren der Geschichte dieser Disziplin von den Träumen der ersten Pioniere im 18 Jahrhundert bis hin zu der weitaus erfolgreicheren Arbeit der heutigen KI Forscher KI wird mehr und mehr zum Bestandteil unseres alltäglichen Lebens Die Technologie ist u a bereits Teil von Gesichtserkennungssystemen Spracherkennungssoftware Suchmaschinen im Internet und im Gesundheitswesen eingesetzten Robotern Dank der zahlreichen Diagramme und Abbildungen und der problemlos zu verstehenden Beschreibungen von KI Programmen bekommen auch auf diesem Gebiet unerfahrene Leserinnen und Leser hier einen umfassenden Einblick darin wie diese und andere KI Systeme funktionieren Die durchgehenden und doch vergleichsweise dezenten Anmerkungen am Ende jedes Kapitels enthalten zudem Hinweise auf Quellen und Forschungsmaterial das KI Lernenden und KI Forschern wichtige Hilfestellung liefern kann Dieses Buch ist die Geschichte eines Forschungsbereichs der Forscher Philosophen und Autoren über Jahrhunderte gefesselt hat und dies immer noch tut Das Buch enthält Erläuterungen zu einer Unmenge an Meilensteinen in der Geschichte der KI genauso wie zu modernen KI Anwendungen Sie erfahren hier Wesentliches über die gesamte Geschichte des Forschungsbereichs aus der Sicht eines Eingeweihten denn der Autor hat über 50 Jahre im Bereich der KI gearbeitet Es gelingt Nilsson hervorragend technische Inhalte auch für Laien verständlich zu erklären

**Conference Record** ,1972 Fifth Generation Computer Systems T. Moto-Oka,2012-12-02 The Japan Information Processing Development Centre JIPDEC established a committee for Study and Research on Fifth Generation Computers Beginning in 1979 this Committee set out on a two year investigation into the most desirable types of computer systems for application in the 1990 s fifth generation computers and how the development projects aimed at the realization of these systems should be carried forward This book contains the papers presented at the International Conference on Fifth Generation Computer Systems Included among these papers is a preliminary report on the findings of the Committee

Perspectives on Computer Science Anita K. Jones,2014-06-17 *Perspectives on Computer Science* provides information pertinent to the fundamental aspects of computer science This book discusses the weaknesses frequently found in minicomputers Organized into 12 chapters this book begins with an overview

of the technological economic and human aspects of the environment in which PDP 11 was designed and built This text then examines the set of techniques for tree searching Other chapters consider a tutorial on automatic planning systems with emphasis given to knowledge representation issues This book discusses as well the classical least fixedpoint approach toward recursive programs and examines the interplay between time and space determined by a variety of machine models The final chapter deals with some of the primary influences in contemporary programming language design namely programming methodology program specification verification and formal semantic definition techniques This book is a valuable resource for students and teachers Computer science theoreticians and mathematicians will also find this book useful

**Encyclopedia of Library and Information Science** Allen Kent,1985-02-27 The Encyclopedia of Library and Information Science provides an outstanding resource in 33 published volumes with 2 helpful indexes This thorough reference set written by 1300 eminent international experts offers librarians information computer scientists bibliographers documentalists systems analysts and students convenient access to the techniques and tools of both library and information science Impeccably researched cross referenced alphabetized by subject and generously illustrated the Encyclopedia of Library and Information Science integrates the essential theoretical and practical information accumulating in this rapidly growing field Perspectives sur la recherche en informatique et automatique Institut de recherche d'informatique et d'automatique,1978 **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 *Encyclopedia of Computer Science and Technology* Allen Kent,James G. Williams,Albert G. Holzman,1987-03-19 This comprehensive reference work provides immediate fingertip access to state of the art technology in nearly 700 self contained articles written by over 900 international authorities Each article in the Encyclopedia features current developments and trends in computers software vendors and applications extensive bibliographies of leading figures in the field such as Samuel Alexander John von Neumann and Norbert Wiener and in depth analysis of future directions Audio Graphic Programming System Chacko Chandy Neroth,1972 Musical Semantics Otto Ernst Laske,1973 *Proceedings of the Conference* ,1977 *Biographical Memoirs* National Academy of Sciences,1997 Biographic Memoirs Volume 71 contains the biographies of deceased members of the National Academy of Sciences and bibliographies of their published works Each biographical essay was written by a member of the Academy familiar with the professional career of the deceased For historical and bibliographical purposes these volumes are worth returning to time and again *Building Bridges Across Cultures* Nobleza C. Asuncion-Landé,1981

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