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He has been a Teaching Assistant and an Instructor at Purdue, a Lecturer in Engineering at USC and UCLA/UCLAUCD, and a Technician and Engineer for the General Motors Corporation and for the Radiochemistry Corporation. He has also been an Engineer, a DP, a Newscaster, and a Staff Announcer for ABC, NBC, and independent stations. He has been a Choral Director and is a published composer/arranger of sacred music. Since 1959 he has worked at Rockwell International (formerly North American Aviation, Inc.) where he presently heads the Digital Systems Group in the Electronic Research Division.

Dr. White is a member of Eta Kappa Nu, Tau Beta Pi, Sigma Xi, and is a Registered Professional Engineer. He has 7 patents granted and 23 pending, and has published over 40 articles in the open literature. He serves on the Digital Signal Processing Committee of the IEEE Circuit and Systems Society and on the Adaptive and Learning Systems Committee of the IEEE Control Systems Society. He has also been a North American Aviation Science-Engineering Fellow, a member of the SRA Working Group on Active and Digital Filters, and was a Co-Chairman for five years on the National Electronics Conference's "Professional Growth in Engineering" program. In 1968 he was recognized by the *International Who's Who in Medical Engineering* for his work in non-invasive cardiac monitoring. He was also listed in the 1976 edition of *Who's Who in the West* and in *American Men of Science*.

Speech Recognition: Invited Papers Presented at the 1974 IEEE Symposium, D. Raj Reddy, Ed. (New York: Academic, 1975, 542 pp., \$17.00). *Reviewed by Jared J. Wolf.*

This book is the result of the IEEE Symposium on Speech Recognition, held at Carnegie-Mellon University, Pittsburgh, PA, April 15-19, 1974. Most of the contributed papers appeared in the *Symposium Proceedings* [1], and many of them appeared in a Special Issue of this TRANSACTIONS in February 1975. This book contains the 20 invited papers, not available elsewhere, and the keynote address by Gunnar Fant.

The book is divided into five subject areas, corresponding to the topics of the five days of the conference. Each section is headed by a tutorial paper on the subject area. These subject areas and the authors represented therein are:

- 1) Systems (Newell; Martin; Demow; Newberg)
- 2) Parameter and Feature Extraction (Schafer and Rabiner; Gentileman; Morf; Kallath, and Dickenson; Makhoul; Atal; Markel and Gray)
- 3) Acoustic-Phonetics (Broad and Shoup; Cohen and Mercer; Klatt)
- 4) Syntax and Semantics (Woods; Robinson; Hayes and Simon)

5) Systems Organization (Reddy and Erman; Lesser; Barnett; Baker)

These papers cover virtually all of the topics of relevance to the general problem of speech recognition. (The only omission that springs to mind is prosody.) Particularly noteworthy are the tutorial papers that begin each section. There is little description of specific systems or specific implementations; most of the papers are concerned with the intellectual framework on which systems are built.

Although isolated or discrete word recognition is an important subtopic of speech recognition, only one paper (by Martin) deals with it in any depth. The remainder address the more general problems of continuous speech recognition and understanding. (Most of the papers are by people affiliated with the recent ARPA Speech Understanding Project.) In fact, this book contains what is probably the first comprehensive accounts of specifically how higher level linguistic constraints can be applied to the speech recognition problem.

The only lack that one feels upon reading through this book (and it is one for which the Editor and the authors can hardly be blamed) is that it leaves uncovered all that has happened in this rapidly moving field in the meantime, the latter two and a half years of the ARPA Speech Understanding Project and the corresponding work done elsewhere. However, that is the province of later books. There is little in this volume that is obsolete; one can hardly hope to enter this field without being familiar with its contents.

REFERENCES

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Jared J. Wolf (S'64-M'70) was born in Wilmington, DE, on June 17, 1942. He received the B.E.E. degree (summa cum laude) from Union College, Schenectady, NY, in 1963. He received a National Science Foundation Graduate Fellowship for graduate studies at the Massachusetts Institute of Technology, Cambridge, where he received the S.M. and Ph.D. degrees in electrical engineering in 1967 and 1969, respectively.

He was a Research Associate at M.I.T. from 1969 to 1970, and a Leverhulme Postdoctoral Fellow at the Department of Psychology, University of Edinburgh, Scotland, from 1970 to 1971. Since 1971 he has been a Senior Scientist at Bolt Beranek and Newman Inc., Cambridge, MA, where he has primarily been concerned with the development of speech understanding systems, particularly in the areas of signal processing, phonological rules, and control strategy.

Speech Recognition Invited Papers Presented At The 1974 Ieee Symposium

T. Myers,J. Laver,J. Anderson



Speech Recognition Invited Papers Presented At The 1974 Ieee Symposium:

Speech Recognition IEEE Symposium on Speech Recognition (1974 : Carnegie-Mellon University),1975 *Speech Recognition* D.R. Reddy,1975-01-01 *Speech Recognition Invited Papers Presented at the 1974 IEEE Symposium* discusses several topics including speech recognition systems systems organization acoustic phonetics parameter extraction as well as syntax and semantics Organized into five parts encompassing 20 chapters this compilation of papers starts with an overview of the basic structure of speech understanding systems This text then discusses the practical applications of automatic speech recognition in several areas including quality control inspection automated material handling direct communication with computers and inventory taking and control Other chapters consider the operational methods for applying higher level of information to decode the acoustic ambiguities encountered when recognizing larger vocabularies and continuous speech The final chapter deals with stochastic modeling which is a valuable and versatile procedure for automatic speech analysis This book is a valuable resource for scientists and researchers in the fields of artificial intelligence acoustic phonetics linguistics and computer architecture **The Handbook of Phonological Theory** John A. Goldsmith,Jason Riggles,Alan C. L. Yu,2014-01-07 *The Handbook of Phonological Theory* second edition offers an innovative and detailed examination of recent developments in phonology and the implications of these within linguistic theory and related disciplines Revised from the ground up for the second edition the book is comprised almost entirely of newly written and previously unpublished chapters Addresses the important questions in the field including learnability phonological interfaces tone and variation and assesses the findings and accomplishments in these domains Brings together a renowned and international contributor team Offers new and unique reflections on the advances in phonological theory since publication of the first edition in 1995 Along with the first edition still in publication it forms the most complete and current overview of the subject in print *invariance and Variability in Speech Processes* J. S. Perkell,D. H. Klatt,2014-01-14 First published in 1986 The important implications of speech variability for the future of speech related technology in combination with the multifaceted debate about invariance among speech scientists make this a most appropriate time to evaluate the state our knowledge in this area On October 8 10 1983 researchers from the fields of production perception acoustics pathology psychology linguistics language acquisition synthesis and recognition met at a symposium at M I T on invariance and variability of speech processes This volume is the Proceedings of the symposium Each chapter of the book consists of a focus paper followed by some comments **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1977 [Text Mining and its Applications to Intelligence, CRM and Knowledge Management](#) A. Zanasi,2007-09-30 Organizations generate and collect large volumes of textual data Unfortunately many companies are unable to capitalize fully on the value of this data because information implicit within it is not easy to discern Primarily intended for business analysts and statisticians across multiple industries this book provides an introduction to the types of problems encountered and current available text mining solutions

Developments in Natural Intelligence Research and Knowledge Engineering: Advancing Applications Wang, Yingxu, 2012-06-30 This book covers the intricate worlds of thought comprehension intelligence and knowledge through the scientific field of Cognitive Science covering topics that have been pivotal at major conferences covering Cognitive Science Provided by publisher

Foundations of Statistical Natural Language Processing Christopher Manning, Hinrich Schutze, 1999-05-28 Statistical approaches to processing natural language text have become dominant in recent years This foundational text is the first comprehensive introduction to statistical natural language processing NLP to appear The book contains all the theory and algorithms needed for building NLP tools It provides broad but rigorous coverage of mathematical and linguistic foundations as well as detailed discussion of statistical methods allowing students and researchers to construct their own implementations The book covers collocation finding word sense disambiguation probabilistic parsing information retrieval and other applications

The Cognitive Representation of Speech T. Myers, J. Laver, J. Anderson, 1981-12-01 The 32 main papers taken together provide a comprehensive review of speech research by scientists who have made leading contributions to our understanding of the topics discussed The papers are assembled within a coherent problem oriented structure

Abstractions and Embodiments Janet Abbate, Stephanie Dick, 2022-08-30 This anthology of original historical essays examines how social relations are enacted in and through computing using the twin frameworks of abstraction and embodiment The book highlights a wide range of understudied contexts and experiences such as computing and disability working mothers as technical innovators race and community formation and gaming behind the Iron Curtain

Speech Recognition, 1975

Applied Speech Technology Ann K. Syrdal, Raymond W. Bennett, Steven L. Greenspan, 1994-10-18 Written by the world's top experts in the field this multidisciplinary book explores all phases of speech technology Topics covered include Conversion of computerized keyboarded text into synthesized speech aimed at developing talking computers Development of automatic speech recognition allowing electronic devices to process verbal commands Speech training and the use of synthesized speech for the hearing and speech impaired In depth discussions of specific speech technologies are included as well as a treatment of the issues and challenges of human computer interfaces Oriented toward state of the art applications the book emphasizes the practical utilization of emerging technologies and includes numerous case studies

Intelligent Computing Techniques for Smart Energy Systems Anshuman Tripathi, Amit Soni, Ashish Shrivastava, Anil Swarnkar, Jagrati Sahariya, 2022-06-13 This book compiles the best selected research papers presented during the 2nd International Conference on Intelligent Computing Techniques for Smart Energy Systems ICTSES 2021 held at Manipal University Jaipur Rajasthan India It presents the diligent work of the research community where intelligent computing techniques are applied in allied fields of engineering ranging from engineering materials to electrical engineering to electronics and communication engineering to computer related fields The theoretical research concepts are supported with extensive reviews highlighting the trends in the possible and real life applications of computational intelligence The high

quality content with broad range of the topics is thoroughly peer reviewed and published on suitable recommendations

Perception and Production of Fluent Speech Ronald A. Cole, 2016-07-28 Originally published in 1980 this title looks at the mental processes involved in producing and understanding spoken language Although there had been several edited volumes on speech in the previous ten years this volume was unique in that it deals exclusively with perception and production of fluent speech The chapters in this volume contributed to by distinguished scientists from psychology linguistics and computer science deal with such questions as How are ideas encoded into sound How does a speaker plan an utterance How are words recognized What is the role of knowledge in speech perception In short how do people communicate with each other using speech

Digital Pattern Recognition K. S. Fu, 2013-03-07 Since its publication in 1976 the original volume has been warmly received We have decided to put out this updated paperback edition so that the book can be more accessible to students This paperback edition is essentially the same as the original hardcover volume except for the addition of a new chapter Chapter 7 which reviews the recent advances in pattern recognition and image processing Because of the limitations of length we can only report the highlights and point the readers to the literature A few typographical errors in the original edition were corrected We are grateful to the National Science Foundation and the Office of Naval Research for supporting the editing of this book as well as the work described in Chapter 4 and a part of Chapter 7 West Lafayette Indiana March 1980 K S Fu Preface to the First Edition During the past fifteen years there has been a considerable growth of interest in problems of pattern recognition Contributions to the blossom of this area have come from many disciplines including statistics psychology linguistics computer science biology taxonomy switching theory communication theory control theory and operations research Many different approaches have been proposed and a number of books have been published Most books published so far deal with the decision theoretic or statistical approach or the syntactic or linguistic is still far from its maturity many approach

Advances in Probabilistic and Other Parsing Technologies H. Bunt, Anton Nijholt, 2000-10-31 Parsing technology is concerned with finding syntactic structure in language In parsing we have to deal with incomplete and not necessarily accurate formal descriptions of natural languages Robustness and efficiency are among the main issues in parsing Corpora can be used to obtain frequency information about language use This allows probabilistic parsing an approach that aims at both robustness and efficiency increase Approximation techniques to be applied at the level of language description parsing strategy and syntactic representation have the same objective Approximation at the level of syntactic representation is also known as underspecification a traditional technique to deal with syntactic ambiguity In this book new parsing technologies are collected that aim at attacking the problems of robustness and efficiency by exactly these techniques the design of probabilistic grammars and efficient probabilistic parsing algorithms approximation techniques applied to grammars and parsers to increase parsing efficiency and techniques for underspecification and the integration of semantic information in the syntactic analysis to deal with massive ambiguity The

book gives a state of the art overview of current research and development in parsing technologies In its chapters we see how probabilistic methods have entered the toolbox of computational linguistics in order to be applied in both parsing theory and parsing practice The book is both a unique reference for researchers and an introduction to the field for interested graduate students

Behavioral and Social Science National Research Council, Division of Behavioral and Social Sciences and Education, Commission on Behavioral and Social Sciences and Education, Committee on Basic Research in the Behavioral and Social Sciences, 1986-02-01 In 1933 President Herbert Hoover commissioned the Ogburn Report a comprehensive study of social trends in the United States Fifty years later a symposium of noted social and behavioral scientists marked the report's anniversary with a book of their own from the Commission on Behavioral and Social Sciences and Education The 10 chapters presented here relate the developments detailed in the Ogburn Report to modern social trends This book discusses recent major strides in the social and behavioral sciences including sociology psychology anthropology economics and linguistics

Using Large Corpora Armstrong-Warwick Armstrong, 1994 Using Large Corpora identifies new data oriented methods for organizing and analyzing large corpora and describes the potential results that the use of large corpora offers Today large corpora consisting of hundreds of millions or even billions of words along with new empirical and statistical methods for organizing and analyzing these data promise new insights into the use of language Already the data extracted from these large corpora reveal that language use is more flexible and complex than most rule based systems have tried to account for providing a basis for progress in the performance of Natural Language Processing systems Using Large Corpora identifies these new data oriented methods and describes the potential results that the use of large corpora offers The research described shows that the new methods may offer solutions to key issues of acquisition automatically identifying and coding information coverage accounting for all of the phenomena in a given domain robustness accommodating real data that may be corrupt or not accounted for in the model and extensibility applying the model and data to a new domain text or problem There are chapters on lexical issues issues in syntax and translation topics as well discussions of the statistics based vs rule based debate

ACL MIT Series in Natural Language Processing

Cognition and Emotion Mick Power, Tim Dalgleish, 2015-08-20 This fully updated third edition of the highly praised Cognition and Emotion provides a comprehensive overview of contemporary research on both normal emotional experience and the emotional disorders The book provides a comprehensive review of the basic literature on cognition and emotion it describes the historical background and philosophy of emotion reviews the main theories of normal emotions and emotional disorders and the research on the five basic emotions of fear anger sadness anger disgust and happiness The authors provide a unique integration of two areas which are often treated separately the main theories of normal emotions rarely address the issue of disordered emotions and theories of emotional disorders e g depression post traumatic stress disorder and phobias rarely discuss normal emotions The book draws these separate strands together introducing a theoretical framework that can be

applied to both normal and disordered emotions Cognition and Emotion provides both an advanced textbook for undergraduate and postgraduate courses in addition to a novel approach with a range of implications for clinical practice for work with the emotional disorders

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