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Klaus-Peter Engelbrecht



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Usability of Speech Dialog Systems Thomas Hempel, 2008-04-04 Before designing a speech application system three key questions have to be answered who will use it why and how often This book focuses on these high level questions and gives a criteria of when and how to design speech systems After an introduction the state of the art in modern voice user interfaces is displayed The book goes on to evolve criteria for designing and evaluating successful voice user interfaces Trends in this fast growing area are also presented

Estimating Spoken Dialog System Quality with User Models Klaus-Peter Engelbrecht, 2012-08-04 Spoken dialog systems have the potential to offer highly intuitive user interfaces as they allow systems to be controlled using natural language However the complexity inherent in natural language dialogs means that careful testing of the system must be carried out from the very beginning of the design process This book examines how user models can be used to support such early evaluations in two ways by running simulations of dialogs and by estimating the quality judgments of users First a design environment supporting the creation of dialog flows the simulation of dialogs and the analysis of the simulated data is proposed How the quality of user simulations may be quantified with respect to their suitability for both formative and summative evaluation is then discussed The remainder of the book is dedicated to the problem of predicting quality judgments of users based on interaction data New modeling approaches are presented which process the dialogs as sequences and which allow knowledge about the judgment behavior of users to be incorporated into predictions All proposed methods are validated with example evaluation studies

Quality of Telephone-Based Spoken Dialogue Systems Sebastian Möller, 2005-12-28 Quality of Telephone Based Spoken Dialogue Systems is a systematic overview of assessment evaluation and prediction methods for the quality of services such as travel and touristic information phone directory and messaging or telephone banking services A new taxonomy of quality of service is presented which serves as a tool for classifying assessment and evaluation methods for planning and interpreting evaluation experiments and for estimating quality A broad overview of parameters and evaluation methods is given both on a system component level and for a fully integrated system Three experimental investigations illustrate the relationships between system characteristics and perceived quality The resulting information is needed in all phases of system specification design implementation and operation Although Quality of Telephone Based Spoken Dialogue Systems is written from the perspective of an engineer in telecommunications it is an invaluable source of information for professionals in signal processing communication acoustics computational linguistics speech and language sciences human factor design and ergonomics

Text, Speech and Dialogue Vaclav Matousek, Pavel Mautner, 2009-09-03 This volume constitutes selected papers from the 12th International Conference on Text Speech and Dialogue TSD 2009 held in Pilsen Czech Republic in September 2009 This volume contains a collection of submitted papers presented at the conference which were thoroughly reviewed by three members of the conference reviewing team consisting of more than 40 top specialists in the conference topic areas A total of 53 accepted

papers out of 112 submitted altogether contributed 127 authors and co authors were selected for presentation at the conference by the program committee and then included in this book Theoretical and more general contributions were presented in common plenary sessions Problem oriented sessions as well as panel discussions then brought together the specialists in limited problem areas with the aim of exchanging knowledge and skills resulting from research projects of all kinds

Proceedings of the Paralinguistic Information and its Integration in Spoken Dialogue Systems Workshop Ramón López-Cózar Delgado, Tetsunori Kobayashi, 2011-08-27 This volume includes proceedings articles presented at the Workshop on Paralinguistic Information and its Integration in Spoken Dialogue Systems held in Granada Spain The material focuses on the three broad areas of spoken dialogue systems for robotics emotions and spoken dialogue systems and Spoken dialogue systems for real world applications The workshop proceedings are part of the 3rd Annual International Workshop on Spoken Dialogue Systems which brings together researchers from all over the world working in the field of spoken dialogue systems It provides an international forum for the presentation of research and applications and for lively discussions among researchers as well as industrialists

Perception in Multimodal Dialogue Systems Elisabeth Andre, Laila Dybkjær, Heiko Neumann, Roberto Pieraccini, Michael Weber, 2008-06-11 This book constitutes the refereed proceedings of the 4th IEEE Tutorial and Research Workshop on Perception and Interactive Technologies for Speech Based Systems PIT 2008 held in Kloster Irsee Germany in June 2008 The 37 revised full papers presented together with 1 invited keynote lecture were carefully selected from numerous submissions for inclusion in the book The papers are organized in topical sections on multimodal and spoken dialogue systems classification of dialogue acts and sound recognition of eye gaze head poses mimics and speech as well as combinations of modalities vocal emotion recognition human like and social dialogue systems and evaluation methods for multimodal dialogue systems

Towards Adaptive Spoken Dialog Systems Alexander Schmitt, Wolfgang Minker, 2012-09-19 In *Monitoring Adaptive Spoken Dialog Systems* authors Alexander Schmitt and Wolfgang Minker investigate statistical approaches that allow for recognition of negative dialog patterns in Spoken Dialog Systems SDS The presented stochastic methods allow a flexible portable and accurate use Beginning with the foundations of machine learning and pattern recognition this monograph examines how frequently users show negative emotions in spoken dialog systems and develop novel approaches to speech based emotion recognition using hybrid approach to model emotions The authors make use of statistical methods based on acoustic linguistic and contextual features to examine the relationship between the interaction flow and the occurrence of emotions using non acted recordings several thousand real users from commercial and non commercial SDS Additionally the authors present novel statistical methods that spot problems within a dialog based on interaction patterns The approaches enable future SDS to offer more natural and robust interactions This work provides insights lessons and inspiration for future research and development not only for spoken dialog systems but for data driven approaches to human machine interaction in general

Spoken Dialogue Systems Kristina

Jokinen, Michael McTear, 2022-05-31 Considerable progress has been made in recent years in the development of dialogue systems that support robust and efficient human machine interaction using spoken language. Spoken dialogue technology allows various interactive applications to be built and used for practical purposes and research focuses on issues that aim to increase the system's communicative competence by including aspects of error correction, cooperation, multimodality and adaptation in context. This book gives a comprehensive view of the state of the art techniques that are used to build spoken dialogue systems. It provides an overview of the basic issues such as system architectures, various dialogue management methods, system evaluation and also surveys advanced topics concerning extensions of the basic model to more conversational setups. The goal of the book is to provide an introduction to the methods, problems and solutions that are used in dialogue system development and evaluation. It presents dialogue modelling and system development issues relevant in both academic and industrial environments and also discusses requirements and challenges for advanced interaction management and future research. Table of Contents Preface Introduction to Spoken Dialogue Systems Dialogue Management Error Handling Case Studies Advanced Approaches to Dialogue Management Advanced Issues Methodologies and Practices of Evaluation Future Directions References Author Biographies **Speech Technology** Fang Chen, Kristiina

Jokinen, 2010-07-01 This book gives an overview of the research and application of speech technologies in different areas. One of the special characteristics of the book is that the authors take a broad view of the multiple research areas and take the multidisciplinary approach to the topics. One of the goals in this book is to emphasize the application. User experience, human factors and usability issues are the focus in this book. *Spoken Dialogue Systems Technology and Design* Wolfgang

Minker, Gary Geunbae Lee, Satoshi Nakamura, Joseph Mariani, 2010-11-09 *Spoken Dialogue Systems Technology and Design* covers key topics in the field of spoken language dialogue interaction from a variety of leading researchers. It brings together several perspectives in the areas of corpus annotation and analysis, dialogue system construction as well as theoretical perspectives on communicative intention, context based generation and modelling of discourse structure. These topics are all part of the general research and development within the area of discourse and dialogue with an emphasis on dialogue systems, corpora and corpus tools and semantic and pragmatic modelling of discourse and dialogue.

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