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Usability of Speech Dialog Systems

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Vaclav Matousek, Pavel Mautner



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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 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

Quantifying Quality Aspects of Multimodal Interactive Systems Christine Kühnel,2012-06-07 This book systematically addresses the quantification of quality aspects of multimodal interactive systems The conceptual structure is based on a schematic view on human computer interaction where the user interacts with the system and perceives it via input and output interfaces Thus aspects of multimodal interaction are analyzed first followed by a discussion of the evaluation of output and input and concluding with a view on the evaluation of a complete system

Meeting Security Challenges through Data Analytics and Decision Support Galina Rogova,2016-11-15 The sheer quantity of widely diverse data which now results from multiple sources presents a problem for decision makers and analysts who are finding it impossible to cope with the ever increasing flow of material This has potentially serious

consequences for the quality of decisions and operational processes in areas such as counterterrorism and security This book presents the papers delivered at the NATO Advanced Research Workshop ARW Meeting Security Challenges through Data Analytics and Decision Support held in Aghveran Armenia in June 2015 The aim of the conference was to promote and enhance cooperation and dialogue between NATO and Partner countries on the subject of effective decision support for security applications The attendance of many leading scientists from a variety of backgrounds and disciplines provided the opportunity to improve mutual understanding as well as cognizance of the specific requirements and issues of Cyber Physical Social Systems CPPS and the technical advances pertinent to all collaborative human centric information support systems in a variety of applications The book is divided into 3 sections counter terrorism methodology and applications maritime and border security and cyber security and will be of interest to all those involved in decision making processes based on the analysis of big data

Conversational Dialogue Systems for the Next Decade Luis Fernando D'Haro,Zoraida Callejas,Satoshi Nakamura,2020-10-24 This book compiles and presents a synopsis on current global research efforts to push forward the state of the art in dialogue technologies including advances to the classical problems of dialogue management language generation question answering human robot interaction chatbots design and evaluation as well as topics related to the human nature of the conversational phenomena such as humour social context specific applications for e health understanding and awareness

Advances in Natural Multimodal Dialogue Systems Jan van Kuppevelt,Laila Dybkjær,Niels Ole Bernsen,2006-06-28 References 74 Part II Annotation and Analysis of Multimodal Data Speech and Gesture 4 FORM 79 Craig H Martell 1 Introduction 79 2 Structure of FORM 80 3 Annotation Graphs 85 4 Annotation Example 86 5 Preliminary Inter Annotator Agreement Results 88 6 Conclusion Applications to HLT and HCI 90 Appendix Other Tools Schemes and Methods of Gesture Analysis 91 References 95 5 97 On the Relationships among Speech Gestures and Object Manipulation in Virtual Environments Initial Evidence Andrea Corradini and Philip R Cohen 1 Introduction 97 2 Study 99 3 Data Analysis 101 4 Results 103 5 Discussion 106 6 Related Work 106 7 Future Work 108 8 Conclusions 108 Appendix Questionnaire MYST III EXILE 110 References 111 6 113 Analysing Multimodal Communication Patrick G T Healey Marcus Colman and Mike Thirlwell 1 Introduction 113 2 Breakdown and Repair 117 3 Analysing Communicative Coordination 125 4 Discussion 126 References 127 7 131 Do Oral Messages Help Visual Search No lle Carbonell and Suzanne Kieffer 1 Context and Motivation 131 2 Methodology and Experimental Set Up 134 3 Results Presentation and Discussion 141 4 Conclusion 153 References 154 Contents vii 8 159 Geometric and Statistical Approaches to Audiovisual Segmentation Trevor Darrell John W Fisher III Kevin W Wilson and Michael R Siracusa 1 Introduction 159 2 Related Work 160 3 Multimodal Multisensor Domain 162 4 Results 166 5 Single Multimodal Sensor Domain 167 6 *9th International Workshop on Spoken Dialogue System Technology* Luis Fernando D'Haro,Rafael E. Banchs,Haizhou Li,2019-09-24 This book presents the outcomes of the 9th International Workshop on Spoken Dialogue Systems IWSDS Towards creating more human like

conversational agent technologies It compiles and provides a synopsis of current global research to push forward the state of the art in dialogue technologies including advances in the context of the classical problems of language understanding dialogue management and language generation as well as cognitive topics related to the human nature of conversational phenomena such as humor empathy and social context understanding and awareness *SmartKom: Foundations of Multimodal Dialogue Systems* Wolfgang Wahlster, 2006-09-05 With contributions by leading scientists in the field this book gives the first comprehensive overview of the results of the seminal SmartKom project one of the most advanced multimodal dialogue systems worldwide *Reinforcement Learning for Adaptive Dialogue Systems* Verena Rieser, Oliver Lemon, 2011-11-23 The past decade has seen a revolution in the field of spoken dialogue systems As in other areas of Computer Science and Artificial Intelligence data driven methods are now being used to drive new methodologies for system development and evaluation This book is a unique contribution to that ongoing change A new methodology for developing spoken dialogue systems is described in detail The journey starts and ends with human behaviour in interaction and explores methods for learning from the data for building simulation environments for training and testing systems and for evaluating the results The detailed material covers Spoken and Multimodal dialogue systems Wizard of Oz data collection User Simulation methods Reinforcement Learning and Evaluation methodologies The book is a research guide for students and researchers with a background in Computer Science AI or Machine Learning It navigates through a detailed case study in data driven methods for development and evaluation of spoken dialogue systems Common challenges associated with this approach are discussed and example solutions are provided This work provides insights lessons and inspiration for future research and development not only for spoken dialogue systems in particular but for data driven approaches to human machine interaction in general *Applications and Innovations in Intelligent Systems XII* Ann Macintosh, Richard Ellis, Tony Allen, 2007-12-31 A L Macintosh Napier University UK The papers in this volume are the refereed application papers presented at ES2004 the Twenty fourth SGAI International Conference on Innovative Techniques and Applications of Artificial Intelligence held in Cambridge in December 2004 The conference was organised by SGAI the British Computer Society Specialist Group on Artificial Intelligence This volume contains twenty refereed papers which present the innovative application of a range of AI techniques in a number of subject domains This year the papers are divided into sections on Synthesis and Prediction Scheduling and Search Diagnosis and Monitoring Classification and Design and Analysis and Evaluation This year s prize for the best refereed application paper which is being sponsored by the Department of Trade and Industry was won by a paper entitled A Case Based Technique for Tracking Concept Drift in Spam Filtering The authors are Sarah Jane Delany from the Dublin Institute of Technology Ireland and Padraig Cunningham Alexey Tsymbal and Lorcan Coyle from Trinity College Dublin Ireland This is the twelfth volume in the Applications and Innovations series The Technical Stream papers are published as a companion volume under the title Research and Development in Intelligent Systems XXI On

behalf of the conference organising committee I should like to thank all those who contributed to the organisation of this year's application programme in particular the programme committee members the executive programme committee and our administrators Linsay Turbert and Collette Jackson

Crowdsourcing for Speech Processing Maxine Eskenazi, Gina-Anne Levow, Helen Meng, Gabriel Parent, David Suendermann, 2013-02-15 Provides an insightful and practical introduction to crowdsourcing as a means of rapidly processing speech data Intended for those who want to get started in the domain and learn how to set up a task what interfaces are available how to assess the work etc as well as for those who already have used crowdsourcing and want to create better tasks and obtain better assessments of the work of the crowd It will include screenshots to show examples of good and poor interfaces examples of case studies in speech processing tasks going through the task creation process reviewing options in the interface in the choice of medium MTurk or other and explaining choices etc Provides an insightful and practical introduction to crowdsourcing as a means of rapidly processing speech data Addresses important aspects of this new technique that should be mastered before attempting a crowdsourcing application Offers speech researchers the hope that they can spend much less time dealing with the data gathering annotation bottleneck leaving them to focus on the scientific issues Readers will directly benefit from the book's successful examples of how crowd sourcing was implemented for speech processing discussions of interface and processing choices that worked and choices that didn't and guidelines on how to play and record speech over the internet how to design tasks and how to assess workers Essential reading for researchers and practitioners in speech research groups involved in speech processing

Data-Driven Methods for Adaptive Spoken Dialogue Systems Oliver Lemon, Olivier Pietquin, 2012-10-21 Data driven methods have long been used in Automatic Speech Recognition ASR and Text To Speech TTS synthesis and have more recently been introduced for dialogue management spoken language understanding and Natural Language Generation Machine learning is now present end to end in Spoken Dialogue Systems SDS However these techniques require data collection and annotation campaigns which can be time consuming and expensive as well as dataset expansion by simulation In this book we provide an overview of the current state of the field and of recent advances with a specific focus on adaptivity

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