

QUALITY OF TELEPHONE-BASED SPOKEN DIALOGUE SYSTEMS

Sebastian Möller



Quality Of Telephone Based Spoken Dialogue Systems

Shasha Hu



Quality Of Telephone Based Spoken Dialogue Systems:

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

Quality of Telephone-Based Spoken Dialogue Systems Sebastian Möller, 2008-11-01 *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

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

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

Recent Trends in Discourse and Dialogue Laila Dybkjær, Wolfgang Minker, 2008-02-13 The eleven chapters of this book represent an original contribution to the field of multimodal spoken dialogue systems The material includes highly relevant topics such as dialogue modeling in research systems versus industrial systems The book contains detailed application studies including speech controlled MP3 players in a car environment negotiation training with a virtual human in a military context and the application of spoken dialogue to question answering systems

Spoken Dialogue Systems for Ambient Environments Gary Geunbae Lee, Joseph Mariani, Wolfgang Minker, Satoshi Nakamura, 2010-10-05 Annotation This book constitutes the refereed proceedings of the Second International Workshop on Spoken Dialogue Systems IWDS 2010 held in Gotemba Japan in October 2010 The 22 session papers presented together with 2 invited keynote talks were carefully reviewed and selected from numerous submissions The papers deal with topics around Spoken Dialogue Systems for Ambient Environment and discuss common issues of theories applications evaluation limitations general tools and techniques

Text, Speech and Dialogue Petr Sojka, Aleš Horák, Ivan Kopeček, 2008-09-09 The annual Text Speech and Dialogue Conference TSD which originated in 1998 is now starting its second decade So far almost 900 authors from 45 countries have contributed to the proceedings TSD constitutes a recognized platform for the presentation and discussion of state of the art technology and recent achievements in the field of natural language processing It has become an interdisciplinary forum interweaving the themes of speech technology and language processing The conference attracts researchers not only from Central and Eastern Europe but also from other parts of the world Indeed one of its goals has always been to bring together NLP researchers with different interests from different parts of the world and to promote their mutual cooperation One of the ambitions of the conference is as its title says not only to deal with dialogue systems as such but also to contribute to improving dialogue between researchers in the two areas of NLP i e between text and speech people In our view the TSD conference was successful in this respect in 2008 as well This volume contains the proceedings of the 11th TSD conference held in Brno Czech Republic in September 2008 Following the review process 79 papers were accepted out of 173 submitted an acceptance rate of 45.7%

Human-Computer Interaction - INTERACT 2009 Tom Gross, Jan Gulliksen, Paula Kotzé, Lars Oestreicher, Philippe Palanque, Raquel Oliveira Prates, Marco Winckler, 2009-08-20 INTERACT 2009 was the 12th of a series of INTERACT international conferences supported by the IFIP Technical Committee 13 on Human Computer Interaction This year INTERACT was held in Uppsala Sweden organized by the Swedish Interdisciplinary Interest Group for Human Computer Interaction STIMDI in cooperation with the Department of Information Technology at Uppsala University Like its predecessors INTERACT 2009 highlighted both to the academic and to the industrial world the importance of the human computer interaction HCI area and its most recent breakthroughs on current applications Both experienced HCI researchers and

professionals as well as newcomers to the HCI field interested in designing or evaluating interactive software developing new interaction technologies or investigating overarching theories of HCI found in INTERACT 2009 a great forum for communication with people of similar interests to encourage collaboration and to learn INTERACT 2009 had Research and Practice as its special theme The reason we selected this theme is that the research within the field has drifted away from the practical applicability of its results and that the HCI practice has come to disregard the knowledge and development within the academic community

The Routledge Handbook of Language and Dialogue Edda Weigand, 2017-06-27 The Routledge Handbook of Language and Dialogue is the first comprehensive overview of the emerging and rapidly growing sub discipline in linguistics Language and Dialogue Edited by one of the top scholars in the field Edda Weigand and comprising contributions written by a variety of likewise influential figures the handbook aims to describe the history of modern linguistics as reasoned progress leading from de Saussure and the simplicity of artificial terms to the complexity of human action and behaviour which is based on the integration of human abilities such as speaking thinking perceiving and having emotions The book is divided into three sections the first focuses on the history of modern linguistics and related disciplines the second part focuses on the core issues and open debates in the field of Language and Dialogue and introduces the arguments pro and contra certain positions and the third section focuses on the three components that fundamentally affect language use human nature institutions and culture This handbook is the ideal resource for those interested in the relationship between Language and Dialogue and will be of use to students and researchers in Linguistics and related fields such as Discourse Analysis Cognitive Linguistics and Communication

Universal Access in Human-Computer Interaction. Intelligent and Ubiquitous Interaction Environments Constantine Stephanidis, 2009-07-14 The 13th International Conference on Human Computer Interaction HCI International 2009 was held in San Diego California USA July 19-24 2009 jointly with the Symposium on Human Interface Japan 2009 the 8th International Conference on Engineering Psychology and Cognitive Ergonomics the 5th International Conference on Universal Access in Human Computer Interaction the Third International Conference on Virtual and Mixed Reality the Third International Conference on Internationalization Design and Global Development the Third International Conference on Online Communities and Social Computing the 5th International Conference on Augmented Cognition the Second International Conference on Digital Human Modeling and the First International Conference on Human Centered Design A total of 4 348 individuals from academia research institutes industry and governmental agencies from 73 countries submitted contributions and 1 397 papers that were judged to be of high scientific quality were included in the program These papers present the latest research and development efforts and highlight the human aspects of the design and use of computing systems The papers accepted for presentation thoroughly cover the entire field of human computer interaction addressing major advances in knowledge and effective use of computers in a variety of application areas

Designing Solutions-Based Ubiquitous and Pervasive Computing: New Issues and

Trends Neto, Francisco Milton Mendes, Neto, Pedro Fernandes Ribeiro, 2010-04-30 This book provides a general overview about research on ubiquitous and pervasive computing and its applications discussing the recent progress in this area and pointing out to scholars what they should do best practices and should not do bad practices Provided by publisher

Human-Centric Interfaces for Ambient Intelligence Hamid Aghajan, Juan Carlos Augusto, Ramon Lopez-Cozar Delgado, 2009-09-25 To create truly effective human centric ambient intelligence systems both engineering and computing methods are needed This is the first book to bridge data processing and intelligent reasoning methods for the creation of human centered ambient intelligence systems Interdisciplinary in nature the book covers topics such as multi modal interfaces human computer interaction smart environments and pervasive computing addressing principles paradigms methods and applications This book will be an ideal reference for university researchers R D engineers computer engineers and graduate students working in signal speech and video processing multi modal interfaces human computer interaction and applications of ambient intelligence Hamid Aghajan is a Professor of Electrical Engineering consulting at Stanford University USA His research is on user centric vision applications in smart homes assisted living well being smart meetings and avatar based social interactions He is Editor in Chief of Journal of Ambient Intelligence and Smart Environments has chaired ACM IEEE ICDSC 2008 and organized workshops sessions tutorials at ECCV ACM MM FG ECAI ICASSP CVPR Juan Carlos Augusto is a Lecturer at the University of Ulster UK He is conducting research on Smart Homes and Classrooms He has given tutorials at IJCAI 07 and AAI 08 He is Editor in Chief of the Book Series on Ambient Intelligence and Smart Environments and the Journal of Ambient Intelligence and Smart Environments He has co Chaired ICOST 06 AITAmI 06 07 08 and is Workshops Chair for IE 09 Ram n L pez C zar Delgado is a Professor at the Faculty of Computer Science and Telecommunications of the University of Granada Spain His research interests include speech recognition and understanding dialogue management and Ambient Intelligence He is a member of ISCA International Speech Communication Association SEPLN Spanish Society on Natural Language Processing and AIPO Spanish Society on HCI Integrates engineering and computing methods that are essential for designing and implementing highly effective ambient intelligence systems Contains contributions from the world s leading experts in academia and industry Gives a complete overview of the principles paradigms and applications of human centric ambient intelligence systems **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

Natural Language Dialog Systems and Intelligent Assistants G.G. Lee, H.K. Kim, M. Jeong, J.-H. Kim, 2015-09-28 This book covers state of the art topics on the practical implementation of Spoken Dialog Systems and intelligent assistants in everyday applications. It presents scientific achievements in language processing that result in the development of successful applications and addresses general issues regarding the advances in Spoken Dialog Systems with applications in robotics, knowledge access and communication. Emphasis is placed on the following topics: speaker language recognition, user modeling, simulation, evaluation of dialog system, multi modality, emotion recognition from speech, speech data mining, language resource and databases, machine learning for spoken dialog systems and educational and healthcare applications.

Data-Driven Methods for Adaptive Spoken Dialogue Systems Oliver Lemon, Olivier Pietquin, 2012-10-20 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.

Quality Engineering Sebastian Möller, 2023-04-21 Der Begriff der Qualität und der Gebrauchstauglichkeit hat in der Informations- und Kommunikationstechnik sowie der Informatik eine herausragende Bedeutung. Der Autor führt in diese Thematik ein, indem er zunächst die Fachbegriffe und die Grundlagen der Psychophysik und Psychometrie erläutert. Darauf aufbauend wird der Kreislauf einer menschenorientierten Systementwicklung vorgestellt. Die Messung und Vorhersage von Qualität und Gebrauchstauglichkeit wird anhand von Beispielen veranschaulicht. Außerdem Sprach- und multimodale Dialogsysteme.

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 develops novel approaches to speech-based emotion recognition using a 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 of 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 **Research and Design Innovations for Mobile User Experience**
R?zvano?lu, Kerem,2013-08-31 Mobile devices allow users to remain connected with each other anytime and anywhere but flaws and limitations in the design of mobile interfaces have often constituted frustrating obstacles to usability Research and Design Innovations for Mobile User Experience offers innovative design solutions for mobile human computer interfaces addressing both challenges and opportunities in the field to pragmatically improve the accessibility of mobile technologies Through cutting edge empirical studies and investigative cases this reference book will enable designers developers managers and experts of mobile computer interfaces with the most up to date tools and techniques for providing their users with an outstanding mobile experience 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 *Human-Computer Interaction. New Trends* Julie A. Jacko,2009-07-14 The 13th International Conference on Human Computer Interaction HCI Inter tional 2009 was held in San Diego California USA July 19 24 2009 jointly with the Symposium on Human Interface Japan 2009 the 8th International Conference on Engineering Psychology and Cognitive Ergonomics the 5th International Conference on Universal Access in Human Computer Interaction the Third International Conf ence on Virtupel and Mixed Reality the Third International Conference on Internati alization Design and Global Development the Third International Conference on Online Communities and Social Computing the 5th International Conference on Augmented Cognition the Second International Conference on Digital Human Mod ing and the First International Conference on Human Centered Design A total of 4 348 individuals from academia research institutes industry and gove mental agencies from 73 countries submitted contributions and 1 397 papers that were judged to be of high scientific quality were included in the program These papers dress the latest research and development efforts and highlight the human aspects of design and use of computing systems The papers accepted for presentation thoroughly cover the entire field of human computer interaction addressing major advances in the knowledge and effective use of computers in a variety of application areas

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