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SPOKEN MULTIMODAL HUMAN-COMPUTER DIALOGUE IN MOBILE ENVIRONMENTS

Edited by W. Minker, Dirk Bühler and Laila Dybkjær

Spoken Multimodal Humancomputer Dialogue In Mobile Environments

Laila Dybkjær, Wolfgang Minker



Spoken Multimodal Humancomputer Dialogue In Mobile Environments:

Spoken Multimodal Human-Computer Dialogue in Mobile Environments Wolfgang Minker,Dirk Bühler,Laila Dybkjær,2005-08-17 This book is based on publications from the ISCA Tutorial and Research Workshop on Multi Modal Dialogue in Mobile Environments held at Kloster Irsee Germany in 2002 The workshop covered various aspects of development and evaluation of spoken multimodal dialogue systems and components with particular emphasis on mobile environments and discussed the state the art within this area On the development side the major aspects addressed include speech recognition dialogue management multimodal output generation system architectures full applications and user interface issues On the evaluation side primarily usability evaluation was addressed A number of high quality papers from the workshop were selected to form the basis of this book The volume is divided into three major parts which group together the overall aspects covered by the workshop The selected papers have all been tended reviewed and improved after the workshop to form the backbone of the book In addition we have supplemented each of the three parts by an invited contribution intended to serve as an overview chapter

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

Spoken, Multilingual and Multimodal Dialogue Systems Ramon Lopez Cozar Delgado,Masahiro Araki,2007-01-11 Dialogue systems are a very appealing technology with an extraordinary future Spoken Multilingual and Multimodal Dialogues Systems Development and Assessment addresses the great demand for information about the development of advanced dialogue systems combining speech with other modalities under a multilingual framework It aims to give a systematic overview of dialogue systems and recent advances in the practical application of spoken dialogue systems Spoken Dialogue Systems are computer based systems developed to provide information and carry out simple tasks using speech as the interaction mode Examples include travel information and reservation weather forecast information directory information and product order Multimodal Dialogue Systems aim to overcome the limitations of spoken dialogue systems which use speech as the only communication means while Multilingual Systems allow interaction with users that speak different languages Presents a clear snapshot of the structure of a standard dialogue system by addressing its key components in the context of multilingual and multimodal interaction and the assessment of spoken multilingual and multimodal systems In addition to the fundamentals of the technologies employed the development and evaluation of these systems are described Highlights recent advances in the practical application of spoken

dialogue systems This comprehensive overview is a must for graduate students and academics in the fields of speech recognition speech synthesis speech processing language and human computer interaction technology It will also prove to be a valuable resource to system developers working in these areas **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 Co ordination 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 The Handbook of Multimodal-Multisensor Interfaces, Volume 1 Sharon Oviatt,Björn Schuller,Philip Cohen,Daniel

Sonntag,Gerasimos Potamianos,2017-06-01 The Handbook of Multimodal Multisensor Interfaces provides the first authoritative resource on what has become the dominant paradigm for new computer interfaces user input involving new media speech multi touch gestures writing embedded in multimodal multisensor interfaces These interfaces support smart phones wearables in vehicle and robotic applications and many other areas that are now highly competitive commercially This edited collection is written by international experts and pioneers in the field It provides a textbook reference and technology roadmap for professionals working in this and related areas This first volume of the handbook presents relevant theory and neuroscience foundations for guiding the development of high performance systems Additional chapters discuss approaches to user modeling and interface designs that support user choice that synergistically combine modalities with sensors and that blend multimodal input and output This volume also highlights an in depth look at the most common multimodal multisensor combinations for example touch and pen input haptic and non speech audio output and speech centric systems that co process either gestures pen input gaze or visible lip movements A common theme throughout these chapters is supporting mobility and individual differences among users These handbook chapters provide walk through examples of system design and processing information on tools and practical resources for developing and evaluating new

systems and terminology and tutorial support for mastering this emerging field In the final section of this volume experts exchange views on a timely and controversial challenge topic and how they believe multimodal multisensor interfaces should be designed in the future to most effectively advance human performance

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

Error Handling in Spoken Dialogue Systems - Managing Uncertainty, Grounding and Miscommunication Gabriel Skantze, 2007

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

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

Conversational Agents and Natural Language Interaction: Techniques and Effective Practices Perez-Marin, Diana, Pascual-Nieto, Ismael, 2011-06-30 This book is a reference guide for researchers entering the promising field of conversational agents providing an introduction to

fundamental concepts in the field collecting experiences of researchers working on conversational agents and reviewing techniques for the design and application of conversational agents

Reviewing **Spoken Multimodal Humancomputer Dialogue In Mobile Environments**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Spoken Multimodal Humancomputer Dialogue In Mobile Environments**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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