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Handling Emotions in Human-Computer Dialogues

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Handling Emotions In Human Computer Dialogues

Handling Emotions In Human Computer Dialogues

Petra-Maria Strauß, Wolfgang Minker



Handling Emotions In Human Computer Dialogues Handling Emotions In Human Computer Dialogues:

Handling Emotions in Human-Computer Dialogues Johannes Pittermann, Angela Pittermann, Wolfgang Minker, 2009-10-28 In this book a novel approach that combines speech based emotion recognition with adaptive human computer dialogue modeling is described With the robust recognition of emotions from speech signals as their goal the authors analyze the effectiveness of using a plain emotion recognizer a speech emotion recognizer combining speech and emotion recognition and multiple speech emotion recognizers at the same time The semi stochastic dialogue model employed relates user emotion management to the corresponding dialogue interaction history and allows the device to adapt itself to the context including altering the stylistic realization of its speech This comprehensive volume begins by introducing spoken language dialogue systems and providing an overview of human emotions theories categorization and emotional speech It moves on to cover the adaptive semi stochastic dialogue model and the basic concepts of speech emotion recognition Finally the authors show how speech emotion recognizers can be optimized and how an adaptive dialogue manager can be implemented The book with its novel methods to perform robust speech based emotion recognition at low complexity will be of interest to a variety of readers involved in human computer interaction

Introducing Spoken Dialogue Systems into Intelligent Environments Tobias Heinroth, Wolfgang Minker, 2012-11-07 Introducing Spoken Dialogue Systems into Intelligent Environments outlines the formalisms of a novel knowledge driven framework for spoken dialogue management and presents the implementation of a model based Adaptive Spoken Dialogue Manager ASDM called OwlSpeak The authors have identified three stakeholders that potentially influence the behavior of the ASDM the user the SDS and a complex Intelligent Environment IE consisting of various devices services and task descriptions The theoretical foundation of a working ontology based spoken dialogue description framework the prototype implementation of the ASDM and the evaluation activities that are presented as part of this book contribute to the ongoing spoken dialogue research by establishing the fertile ground of model based adaptive spoken dialogue management This monograph is ideal for advanced undergraduate students PhD students and postdocs as well as academic and industrial researchers and developers in speech and multimodal interactive 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 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

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

Speech, Image, and Language Processing for Human Computer Interaction: Multi-Modal Advancements Tiwary, Uma Shanker,Siddiqui, Tanveer J.,2012-04-30 This book identifies the emerging research areas in Human Computer Interaction and discusses the current state of the art in these areas Provided by publisher

Handbook of Research on Synthetic Emotions and Sociable Robotics: New Applications in Affective Computing and Artificial Intelligence Vallverdú, Jordi,Casacuberta, David,2009-05-31 This book focuses on the integration of emotions into artificial environments such as computers and robotics Provided by publisher

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

Text, Speech and Dialogue Václav Matoušek,Pavel Mautner,2007-08-19 This book constitutes the refereed proceedings of the 10th International Conference on Text Speech and Dialogue TSD 2007 held in Pilsen Czech Republic in September 2007 The 80 revised full papers presented in this volume cover a wealth of state of the art research results in the field of natural language processing with an emphasis on text speech and spoken dialogue ranging from theoretical and methodological issues to applications in various fields

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 **Affective Dialogue Systems** Elisabeth André, Laila Dybkjaer, Wolfgang Minker, Paul

Heisterkamp, 2004-05-14 Human conversational partners are able at least to a certain extent to detect the speaker's or listener's emotional state and may attempt to respond to it accordingly When instead one of the interlocutors is a computer a number of questions arise such as the following To what extent are dialogue systems able to simulate such behaviors Can we learn the mechanisms of emotional behaviors from observing and analyzing the behavior of human speakers How can emotions be automatically recognized from a user's mimics gestures and speech What possibilities does a dialogue system have to express emotions itself And very importantly would emotional system behavior be desirable at all Given the state of ongoing research into incorporating emotions in dialogue systems we found it timely to organize a Tutorial and Research Workshop on Affective Dialogue Systems ADS2004 at Kloster Irsee in Germany during June 14-16 2004 After two successful ISCA Tutorial and Research Workshops on Multimodal Dialogue Systems at the same location in 1999 and 2002 we felt that a workshop focusing on the role of affect in dialogue would be a valuable continuation of the workshop series Due to its interdisciplinary nature the workshop attracted submissions from researchers with very different backgrounds and from many different research areas working on for example dialogue processing speech recognition speech synthesis embodied conversational agents computer graphics animation user modelling tutoring systems cognitive systems and human computer interaction

Technologies for Inclusive Education: Beyond Traditional Integration Approaches Griol Barres, David, 2012-11-30 By providing students with the opportunities to receive a high quality education regardless of their social or cultural background inclusive education is a new area that goes beyond traditional integration approaches These approaches hope to provide the educative system with the ability to adapt to the diversity of its students *Technologies for Inclusive Education Beyond Traditional Integration Approaches* introduces the basic concepts current research guidelines and future perspectives on the current state of these approaches This book aims to make inclusive education a reality in the future by highlighting technological advances in applied e learning cognitive learning and education multimedia Novel approaches to human computer interaction are essential to make these contents available for every student regardless of their disabilities and learning styles **Text, Speech and Dialogue** Petr Sojka, 2006-09-11 Here are the refereed proceedings of the 9th International Conference on Text Speech and Dialogue TSD 2006 The book presents 87 revised full papers together with 2 invited papers reviewing state of the art research in the field of natural language processing Coverage ranges from theoretical and methodological issues to applications with special focus on corpora texts and transcription speech analysis

recognition and synthesis as well as their intertwining within NL dialogue systems

Interactive Collaborative

Information Systems Robert Babuška, Frans C.A. Groen, 2010-03-22 The increasing complexity of our world demands new perspectives on the role of technology in decision making Human decision making has its limitations in terms of information processing capacity We need new technology to cope with the increasingly complex and information rich nature of our modern society This is particularly true for critical environments such as crisis management and traffic management where humans need to engage in close collaborations with artificial systems to observe and understand the situation and respond in a sensible way We believe that close collaborations between humans and artificial systems will become essential and that the importance of research into Interactive Collaborative Information Systems ICIS is self evident Developments in information and communication technology have radically changed our working environments The vast amount of information available nowadays and the wirelessly networked nature of our modern society open up new opportunities to handle difficult decision making situations such as computer supported situation assessment and distributed decision making To make good use of these new possibilities we need to update our traditional views on the role and capabilities of information systems The aim of the Interactive Collaborative Information Systems project is to develop techniques that support humans in complex information environments and that facilitate distributed decision making capabilities ICIS emphasizes the importance of building actor agent communities close collaborations between human and artificial actors that highlight their complementary capabilities and in which task distribution is flexible and adaptive

The Conversational Interface

Michael McTear, Zoraida Callejas, David Griol, 2016-05-19 This book provides a comprehensive introduction to the conversational interface which is becoming the main mode of interaction with virtual personal assistants smart devices various types of wearable and social robots The book consists of four parts Part I presents the background to conversational interfaces examining past and present work on spoken language interaction with computers Part II covers the various technologies that are required to build a conversational interface along with practical chapters and exercises using open source tools Part III looks at interactions with smart devices wearables and robots and discusses the role of emotion and personality in the conversational interface Part IV examines methods for evaluating conversational interfaces and discusses future directions

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

Proactive Spoken Dialogue Interaction in Multi-Party Environments Petra-Maria Strauß, Wolfgang Minker, 2010-04-06 Proactive Spoken Dialogue Interaction in Multi Party Environments describes spoken

dialogue systems that act as independent dialogue partners in the conversation with and between users. The resulting novel characteristics such as proactiveness and multi party capabilities pose new challenges on the dialogue management component of such a system and require the use and administration of an extensive dialogue history. In order to assist the proactive spoken dialogue systems development a comprehensive data collection seems mandatory and may be performed in a Wizard of Oz environment. Such an environment builds also the appropriate basis for an extensive usability and acceptance evaluation. *Proactive Spoken Dialogue Interaction in Multi Party Environments* is a useful reference for students and researchers in speech processing.

Emotion Recognition Amit Konar, Aruna Chakraborty, 2015-01-27 A timely book containing foundations and current research directions on emotion recognition by facial expression, voice, gesture and biopotential signals. This book provides a comprehensive examination of the research methodology of different modalities of emotion recognition. Key topics of discussion include facial expression, voice and biopotential signal based emotion recognition. Special emphasis is given to feature selection, feature reduction, classifier design and multi modal fusion to improve performance of emotion classifiers. Written by several experts, the book includes several tools and techniques including dynamic Bayesian networks, neural nets, hidden Markov model, rough sets, type 2 fuzzy sets, support vector machines and their applications in emotion recognition by different modalities. The book ends with a discussion on emotion recognition in automotive fields to determine stress and anger of the drivers responsible for degradation of their performance and driving ability. There is an increasing demand of emotion recognition in diverse fields including psycho therapy, bio medicine and security in government public and private agencies. The importance of emotion recognition has been given priority by industries including Hewlett Packard in the design and development of the next generation human computer interface HCI systems. *Emotion Recognition: A Pattern Analysis Approach* would be of great interest to researchers, graduate students and practitioners as the book offers both foundations and advances on emotion recognition in a single volume. Provides a thorough and insightful introduction to the subject by utilizing computational tools of diverse domains. Inspires young researchers to prepare themselves for their own research. Demonstrates direction of future research through new technologies such as Microsoft Kinect, EEG systems etc.

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.

Diversity, Divergence, Dialogue Katharina Toeppe, Hui

Yan, Samuel Kai Wah Chu, 2021-03-19 This two volume set LNCS 12645 12646 constitutes the refereed proceedings of the 16th International Conference on Diversity Divergence Dialogue iConference 2021 held in Beijing China in March 2021 The 32 full papers and the 59 short papers presented in this two volume set were carefully reviewed and selected from 225 submissions They cover topics such as AI and machine learning data science human computer interaction social media digital humanities education and information literacy information behavior information governance and ethics archives and records research methods and institutional management

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