



# Affective Dialogue Systems

**J Spring**



## **Affective Dialogue Systems:**

**Affective Dialogue Systems** Elisabeth Andre, Laila Dybkjaer, Wolfgang Minker, Paul Heisterkamp, 2004-06-08 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.

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**Language and Emotion. Volume 3** Gesine Lenore Schiewer, Jeanette Altarriba, Bee Chin Ng, 2023-05-08 The Handbook

consists of four major sections Each section is introduced by a main article Theories of Emotion General Aspects Perspectives in Communication Theory Semiotics and Linguistics Perspectives on Language and Emotion in Cultural Studies Interdisciplinary and Applied Perspectives The first section presents interdisciplinary emotion theories relevant for the field of language and communication research including the history of emotion research The second section focuses on the full range of emotion related aspects in linguistics semiotics and communication theories The next section focuses on cultural studies and language and emotion emotions in arts and literature as well as research on emotion in literary studies and media and emotion The final section covers different domains social practices and applications such as society policy diplomacy economics and business communication religion and emotional language the domain of affective computing in human machine interaction and language and emotion research for language education Overall this Handbook represents a comprehensive overview in a rich diverse compendium never before published in this particular domain

**Creating an Emotion Responsive Dialogue System** Ankit Vadehra,2018 The popularity of deep neural networks and vast amounts of readily available multi domain textual data has seen the advent of various domain task specific and domain agnostic dialogue systems In our work we present a general dialogue system that can provide a custom response based on the emotion or sentiment label selected A dialogue system that can vary its response based on different affect labels can be very helpful for designing help desk or social help assistant systems where the response has to follow a certain affective tone such as positive compassionate etc To address this task we design a model that can generate coherent response utterances conditioned on a specified affect label emotion or sentiment We use a Sequence to Sequence model with an adversarial objective to remove affect from the learned representation of the input utterance and generate the response based on this representation and the target affect label Two models were evaluated affect embedding and multi decoder We hypothesize that removal of the affect from the input utterance is helpful in generating a response conditioned on a different affect label The models were evaluated on a large Twitter dialogue corpus The results support our hypothesis

**Building Dialogue Systems for Tutorial Applications** Reva Freedman,2000 *Spoken, Multilingual and Multimodal Dialogue Systems* Ramon Lopez Cozar Delgado,Masahiro Araki,2005-11-11 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 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

**Linguistics and Language Behavior Abstracts** ,2009 **Acta Cybernetica** ,2003 User Modeling ,2005  
*Multimodal Communication* Jens S. Allwood,Shirley Nicholson,2006 *Speech Emotion Recognition in Adaptive Dialogue Systems* Johannes Pittermann,2008 **The 2nd IET International Conference on Intelligent Environments** ,2006 Intelligent Agents and Multi-agent Systems ,2004 **Intelligent Tutoring Systems** ,2004 *Multiagent System Technologies* ,2004 Multi-agent and Multi-agent-based Simulation ,2004 **Symbolic and Quantitative Approaches to Reasoning and Uncertainty** ,2005 **Modeling and Using Context** ,2005 **Envisioning the Survey Interview of the Future** Frederick G. Conrad,Michael F. Schober,2008 This book brings together leading researchers in survey methodology and communication technology in order to 1 develop theories of technology mediated survey response 2 contribute to a better understanding of the survey response task and how it differs from the tasks for which communication technologies have been developed and 3 introduce survey methodologists to new communication technologies that might potentially be relevant for data collection Many of the observations and much of the content is derived from a workshop that took place at the University of Michigan Institute for Social Research involving more than two dozen of the world s leaders in

survey techniques

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