Uses of dialogue systems

- Phone-based applications: timetable info or flight-booking
- Personal assistant: understand user needs and tasks
- Intelligent tutoring: student engagement
- Embodied conversational agents
  - Engagement via realistic and affective physical and facial gestures
- Intelligent environments: home or car
  - Understanding user situation and activity

Affective Dialogue Systems Affective Dialogue Systems

Thomas Ploug,Per Hasle,Harri Oinas-Kukkonen

Affective Dialogue Systems Affective Dialogue 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 be viors from observing and analyzing the behavior of human speakers How can emotionsbeautomaticallyrecognizedfromauser smimics gesturesandspeech 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 A ectiveDialogueSystems ADS2004 atKlosterIrseein GermanyduringJune 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 a ect in dialogue would be a valuable continuation of the workshop series Due to its interdisciplinary nature the workshop attracted submissions from researchers with very di erent backgrounds and from many di erent 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 inter tion

   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 be viors from observing and analyzing the behavior of human speakers How can emotionsbeautomaticallyrecognizedfromauser smimics gesturesandspeech 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 A ectiveDialogueSystems ADS2004 atKlosterIrseein GermanyduringJune 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 a ect in dialogue would be a valuable continuation of the workshop series Due to its interdisciplinary nature the workshop attracted submissions from researchers with very di erent backgrounds and from many di erent 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 inter tion

   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 technolgy It will also prove to be a valuable resource to system developers working in these areas   Affective Computing and Intelligent Interaction Jianhua Tao,Tieniu Tan,2005-10-27 This book constitutes the refereed proceedings of the First International Conference on Affective Computing and Intelligent Interaction ACII 2005 held in Beijing China in October 2005 as an associated event of ICCV 2005 the International Conference on Computer Vision The 45 revised full papers and 81 revised poster papers presented were carefully reviewed and selected from 198 submissions They cover a wide range of topics such as facial expression recognition face animation emotional speech synthesis intelligent agent and virtual reality The papers are organized in topical sections on affective face and gesture processing affective speech processing evaluation of affective expressivity affective database annotation and tools psychology and cognition of affect and affective interaction and systems and applications   **Affective Computing and Intelligent Interaction** Sidney D´Mello,Arthur Graesser,Bjoern Schuller,Jean-Claude Martin,2011-09-23 This volume constitutes the refereed proceedings of the Fourth International Conference on Affective Computing and Intelligent Interaction ACII 2011 held in Memphis TN USA in October 2011   *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 li tations 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 tra c management where humans need to engage in close collaborations with arti cial systems to observe and understand the situation and respond in a sensible way We believe that close collaborations between humans and arti

cial 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 ra cally changed our working environments The vast amount of information available nowadays and the wirelessly networked nature of our modern so ety open up new opportunities to handle di cult 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 en ronments and that facilitate distributed decision making capabilities ICIS emphasizes the importance of building actor agent communities close c laborations between human and arti cial actors that highlight their comp mentary capabilities and in which task distribution is exible and adaptive **Affective Information Processing** Jianhua Tao,Tieniu Tan,2008-12-02 Affective information processing assigns computers the human like capabilities of observation interpretation and generation of affect features It is an important topic for harmonious human computer interaction by increasing the quality of human computer communication and improving the intelligence of the computer Discussing state of art of the research in affective information processing this book summarises key technologies researched such as facial expression recognition face animation emotional speech synthesis intelligent agent and virtual reality The detailed discussion covers a wide range of topics including hot topics which look to challenge and improve current research work Written to provide an opportunity for scientists engineers and graduate students to learn problems solutions and technologies in the topic area this book will provide insight and prove a valuable reference tool Persuasive Technology Thomas Ploug,Per Hasle,Harri Oinas-Kukkonen,2010-06-01 This book constitutes the proceedings of the 5th International Conference on Persuasive Technology PERSUASIVE 2010 held in Copenhagen Denmark in June 2010 The 25 papers presented were carefully reviewed and selected from 80 submissions In addition three keynote papers are included in this volume The topics covered are emotions and user experience ambient persuasive systems persuasive design persuasion profiles designing for health psychology of persuasion embodied and conversational agents economic incentives and future directions for persuasive technology **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

Affective Computing and Intelligent Interaction Ana Paiva,2007-08-30 This book constitutes the refereed proceedings of the Second International Conference on Affective Computing and Intelligent Interaction ACII 2007 held in Lisbon Portugal in September 2007 The 57 revised full papers and 4 revised short papers presented together with the extended abstracts of 33 poster papers were carefully reviewed and selected from 151 submissions The papers are organized in topical sections on affective facial expression and recognition affective body expression and recognition affective speech processing affective text and dialogue processing recognising affect using physiological measures computational models of emotion and theoretical foundations affective databases annotations tools and languages affective sound and music processing affective interactions systems and applications as well as evaluating affective systems   Human-Computer Interaction. Advanced Interaction, Modalities, and Techniques Masaaki Kurosu,2014-06-07 The 3 volume set LNCS 8510 8511 and 8512 constitutes the refereed proceedings of the 16th International Conference on Human Computer Interaction HCII 2014 held in Heraklion Crete Greece in June 2014 The total of 1476 papers and 220 posters presented at the HCII 2014 conferences was carefully reviewed and selected from 4766 submissions These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems The papers 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   **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

Emotion-Oriented Systems Paolo Petta,Catherine Pelachaud,Roddy Cowie,2011-02-04 Emotion pervades human life in general and human communication in particular and this sets information technology a challenge Traditionally IT has focused on allowing people to accomplish practical tasks efficiently setting emotion to one side That was acceptable when technology was a small part of life but as technology and life become increasingly interwoven we can no longer ask people to suspend their emotional nature and habits when they interact with technology The European Commission funded a series of related research projects on emotion and computing culminating in the HUMAINE project which brought together leading academic researchers from the many related disciplines This book grew out of that project and its chapters are arranged according to its working areas theories and models signals to signs data and databases emotion in interaction emotion in cognition and action persuasion and communication usability and ethics and good practice The fundamental aim of the book is to offer researchers an overview of the related areas sufficient for them to do credible work on affective or emotion oriented

computing The book serves as an academically sound introduction to the range of disciplines involved technical empirical and conceptual and will be of value to researchers in the areas of artificial intelligence psychology cognition and user machine interaction *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 **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 Conversational AI for Natural Human-Centric Interaction Svetlana Stoyanchev,Stefan Ultes,Haizhou Li,2022-10-31 This book includes peer reviewed articles from the 12th International Workshop on Spoken Dialogue System Technology IWSDS 2021 Singapore Nowadays dialogue systems or conversational agents have become one of the most important mechanisms for human computer or human robot interaction that has been widely adopted as new paradigm for many applications companies and final users On the other hand recent advances in natural language processing understanding and generation as well as a continuous increasing computational power and large number of resources and data have brought important and consistent improvements to the capabilities of dialogue systems enabling users to have more productive and enjoyable interactions However on the threshold of a new decade the current state of the art shows important areas where improvements are needed such as incorporation of ground based knowledge

personality emotions and adaptability as well as automatic mechanisms for objective robust and fast evaluations especially in the context of developing social and e health applications In this 12th edition of the International Workshop on Spoken Dialogue Systems IWSDS Conversational AI for natural human centric interaction 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 and understanding personalisation and generation spokena and multimodal interaction dialogue evaluation dialogue modelling and applications as well as topics related to chatbots and conversational agent technologies **Autonomic Nervous System Dynamics for Mood and Emotional-State Recognition** Gaetano Valenza,Enzo Pasquale Scilingo,2013-10-29 This monograph reports on advances in the measurement and study of autonomic nervous system ANS dynamics as a source of reliable and effective markers for mood state recognition and assessment of emotional responses Its primary impact will be in affective computing and the application of emotion recognition systems Applicative studies of biosignals such as electrocardiograms electrodermal responses respiration activity gaze points and pupil size variation are covered in detail and experimental results explain how to characterize the elicited affective levels and mood states pragmatically and accurately using the information thus extracted from the ANS Nonlinear signal processing techniques play a crucial role in understanding the ANS physiology underlying superficially noticeable changes and provide important quantifiers of cardiovascular control dynamics These have prognostic value in both healthy subjects and patients with mood disorders Moreover Autonomic Nervous System Dynamics for Mood and Emotional State Recognition proposes a novel probabilistic approach based on the point process theory in order to model and characterize the instantaneous ANS nonlinear dynamics providing a foundation from which machine understanding of emotional response can be enhanced Using mathematics and signal processing this work also contributes to pragmatic issues such as emotional and mood state modeling elicitation and non invasive ANS monitoring Throughout the text a critical review on the current state of the art is reported leading to the description of dedicated experimental protocols novel and reliable mood models and novel wearable systems able to perform ANS monitoring in a naturalistic environment Biomedical engineers will find this book of interest especially those concerned with nonlinear analysis as will researchers and industrial technicians developing wearable systems and sensors for ANS monitoring **Dialogues with Social Robots** Kristiina Jokinen,Graham Wilcock,2016-12-23 This book explores novel aspects of social robotics spoken dialogue systems human robot interaction spoken language understanding multimodal communication and system evaluation It offers a variety of perspectives on and solutions to the most important questions about advanced techniques for social robots and chat systems Chapters by leading researchers address key research and development topics in the field of spoken dialogue systems focusing in particular on three special themes dialogue state tracking evaluation of human robot dialogue in social robotics and socio cognitive language processing The book offers a valuable resource for researchers and practitioners in both

academia and industry whose work involves advanced interaction technology and who are seeking an up to date overview of the key topics It also provides supplementary educational material for courses on state of the art dialogue system technologies social robotics and related research fields   *Advances in Information Retrieval* Gabriella Pasi,Benjamin Piwowarski,Leif Azzopardi,Allan Hanbury,2018-03-20 This book constitutes the refereed proceedings of the 40th European Conference on IR Research ECIR 2018 held in Grenoble France in March 2018 The 39 full papers and 39 short papers presented together with 6 demos 5 workshops and 3 tutorials were carefully reviewed and selected from 303 submissions Accepted papers cover the state of the art in information retrieval including topics such as topic modeling deep learning evaluation user behavior document representation recommendation systems retrieval methods learning and classication and micro blogs   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

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