

An Expressive Conversational-Behavior Generation Model for Advanced Interaction within Multimodal User Interfaces



**Matej Rojc
Izidor Mlakar**

Book And Expressive Conversational Behavior Generation Interaction Multimodal

Chloe Clavel



Book And Expressive Conversational Behavior Generation Interaction Multimodal:

An Expressive Conversational-behavior Generation Models for Advanced Interaction Within Multimodal User Interfaces

Izidor Mlakar, Matej Rojc, 2016 The aim of the book is to represent a flexible and efficient algorithm and a novel system used for the planning generation and realization of conversational behavior co verbal behavior Such behavior is best described as a set of moving body parts which are meaningful In terms of prosody it is synchronized with the accompanying speech The movement and shapes generated as a co verbal behavior represent a contextual link between a repertoire of independent motor skills shapes movements and poses that conversational agent can reproduce and execute and the intent meaning of spoken sequences context The actual intent meaning of spoken content is identified through language dependent linguistic markers and prosody The knowledge databases used to determine the intent meaning of text are based on the linguistic analysis and classification of the text into semiotic classes and subclasses achieved through annotation of multimodal corpora based on the proposed EVA annotation scheme The scheme allows for capturing features at a functional context dependent as well as at a descriptive context independent level The functional level captures high level features that describe the correlation between speech and co verbal behavior whereas the descriptive level allows us to capture and define body poses and shapes independently of verbal content and in high resolution The annotation scheme therefore not only interlinks speech and gesture at a semiotic level but also serves as a basis for the creation of a context independent repertoire of movement and shapes The process of generating the co verbal behavior is in this book divided into two phases The first phase deals with the classification of intent and its synchronization with the verbal content and prosody The second phase then transforms the planned and synchronized behavior into a co verbal animation performed by an embodied conversational agent ECA In order to be able to extrapolate intent from arbitrary text sequences the algorithm for the formulation of behavior deduces meaning intent in regard to the semiotic intent Furthermore the algorithm considers the linguistic features of arbitrary and un annotated text and select primitive gestures based on semiotic nuclei as identified by semiotic classification and further modeled by the predicted prosodic features of speech to be generated by a general text to speech system TTS The output of the phase for formulation of behavior is represented as a hierarchical procedure encoded in XML format and as a speech sequence generated by TTS The procedural description is event oriented and represents a well defined structure of consecutive movements of body parts as well as of body parts moving in parallel The second phase of the novel architecture transforms the procedural descriptions into a series of coherent animations of individual parts of the articulated embodied conversational agent In this regard a novel ECA based realization framework named EVA framework is also represented It supports a real time realization of procedural animation descriptions and plans on multi part mesh based models by using skeletal animation blend shape animation and the animation of predefined pre recorded animated segments This book therefore considers a complete design and implementation of an expressive model for the generation of co verbal

behavior which is able to transform un annotated text into a speech synchronized series of animated sequences

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behavior which is able to transform unannotated text into a speech synchronised series of animated sequences **Artificial Intelligence** Marco Antonio Aceves-Fernandez, 2018-06-27 Artificial intelligence AI is taking an increasingly important role in our society From cars smartphones airplanes consumer applications and even medical equipment the impact of AI is changing the world around us The ability of machines to demonstrate advanced cognitive skills in taking decisions learn and perceive the environment predict certain behavior and process written or spoken languages among other skills makes this discipline of paramount importance in today's world Although AI is changing the world for the better in many applications it also comes with its challenges This book encompasses many applications as well as new techniques challenges and opportunities in this fascinating area *Coverbal Synchrony in Human-Machine Interaction* Matej Rojc, Nick Campbell, 2013-10-25 Embodied conversational agents ECA and speech based human machine interfaces can together represent more advanced and more natural human machine interaction Fusion of both topics is a challenging agenda in research and production spheres The important goal of human machine interfaces is to provide content or functionality in the form of a dialog *Animating Expressive Characters for Social Interaction* Lola Cañamero, Ruth Aylett, 2008-11-27 Animated interactive characters and robots that are able to function in human social environments are being developed by a large number of research groups worldwide Emotional expression as a key element of human social interaction and communication is often added in an attempt to make them appear more natural to us How can such artefacts be given emotional displays that are believable and acceptable to humans This is the central question of *Animating Expressive Characters for Social Interaction* The ability to express and recognize emotions is a fundamental aspect of social interaction Not only is it a central research question it has been explored in animated films dance and other expressive arts for a much longer period This book is unique in presenting a multi disciplinary approach to animation in its broadest sense from internal mechanisms to external displays not only from a graphical perspective but more generally examining how to give characters an anima so that they appear as life like entities and social partners to humans Series B **Opinion Analysis in Interactions** Chloe Clavel, 2019-08-09 As time goes on big companies such as Amazon Microsoft Google and Apple become increasingly interested in virtual assistants The interest and development of social robots has put research into affective and social computing at the forefront of the scene The aim of *Opinion Analysis in Interactions* is to present methods based on artificial intelligence through a combination of machine learning models and symbolic approaches Also discussed are natural language processing and affective computing via the analysis and generation of socio emotional signals The book explores the analysis of opinions in human human interaction and tackles the less explored yet crucial challenges related to the analysis methods of user opinions within the context of human agent interaction It also illustrates the implementation of strategies for selecting and generating agent utterances in response to user opinions and opens up perspectives on the agent's multimodal generation of utterances that hold attitudes *The Handbook on Socially Interactive Agents* Birgit Lugin, Catherine

Pelachaud, David Traum, 2022-10-19 The Handbook on Socially Interactive Agents provides a comprehensive overview of the research fields of Embodied Conversational Agents Intelligent Virtual Agents and Social Robotics Socially Interactive Agents SIAs whether virtually or physically embodied are autonomous agents that are able to perceive an environment including people or other agents reason decide how to interact and express attitudes such as emotions engagement or empathy They are capable of interacting with people and one another in a socially intelligent manner using multimodal communicative behaviors with the goal to support humans in various domains Written by international experts in their respective fields the book summarizes research in the many important research communities pertinent for SIAs while discussing current challenges and future directions The handbook provides easy access to modeling and studying SIAs for researchers and students and aims at further bridging the gap between the research communities involved In two volumes the book clearly structures the vast body of research The first volume starts by introducing what is involved in SIAs research in particular research methodologies and ethical implications of developing SIAs It further examines research on appearance and behavior focusing on multimodality Finally social cognition for SIAs is investigated using different theoretical models and phenomena such as theory of mind or pro sociality The second volume starts with perspectives on interaction examined from different angles such as interaction in social space group interaction or long term interaction It also includes an extensive overview summarizing research and systems of human agent platforms and of some of the major application areas of SIAs such as education aging support autism and games

Human Factors in Computing Systems, 1999 The Oxford Handbook of Affective Computing

Rafael A. Calvo, Sidney D'Mello, Jonathan Matthew Gratch, Arvid Kappas, 2015 The Oxford Handbook of Affective Computing is the definitive reference for research in Affective Computing AC a growing multidisciplinary field encompassing computer science engineering psychology education neuroscience and many other disciplines The handbook explores how affective factors influence interactions between humans and technology how affect sensing and affect generation techniques can inform our understanding of human affect and on the design implementation and evaluation of systems that intricately involve affect at their core Suitable for use as a textbook in undergraduate or graduate courses in AC the volume is a valuable resource for students researchers and practitioners worldwide

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