

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



**Matej Rojc
Izidor Mlakar**

And Expressive Conversational Behavior Generation Interaction Multimodal

Yi-Tong Ma



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

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

Matej Rojc, Izidor Mlakar, 2016 The aim of the book is to represent a flexible and efficient algorithm and a novel system used for the planning generation and realisation 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 synchronised 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 synchronisation with the verbal content and prosody The second phase then transforms the planned and synchronised 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 realisation framework named EVA framework is also represented It supports a real time realisation 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 synchronised series of animated sequences Applied Physics, System Science and Computers III Klimis Ntalianis, George Vachtsevanos, Pierre Borne, Anca Croitoru, 2019-06-27

This book reports on advanced theories and methods in three related fields of research applied physics system science and computers The first part covers applied physics topics such as lasers and accelerators fluid dynamics optics and spectroscopy among others It also addresses astrophysics security and medical and biological physics The second part focuses on advances in computers such as those in the area of social networks games internet of things deep learning models and more The third part is especially related to systems science covering swarm intelligence smart cities complexity and more Advances in and application of computer communication artificial intelligence data analysis simulation and modeling are also addressed The book offers a collection of contributions presented at the 3rd International Conference on Applied Physics System Science and Computers APSAC held in Dubrovnik Croatia on September 26 28 2018 Besides presenting new methods it is also intended to promote collaborations between different communities working on related topics at the interface between physics computer science and engineering *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

Encyclopedia of Organizational Knowledge, Administration, and Technology Khosrow-Pour D.B.A., Mehdi, 2020-09-29 For any organization to be successful it must operate in such a manner that knowledge and information human resources and technology are continually taken into consideration and managed effectively Business concepts are always present regardless of the field or industry in education government healthcare not for profit engineering hospitality tourism among others Maintaining organizational awareness and a strategic frame of mind is critical to meeting goals gaining competitive advantage and ultimately ensuring sustainability The Encyclopedia of Organizational Knowledge Administration and Technology is an inaugural five volume publication that offers 193 completely new and previously unpublished articles authored by leading experts on the latest concepts issues challenges innovations and opportunities covering all aspects of modern organizations Moreover it is comprised of content that highlights major breakthroughs discoveries and authoritative research results as they pertain to all aspects of organizational growth and development including methodologies that can help companies thrive and analytical tools that assess an organization's internal health and performance Insights are offered in key topics such as organizational structure strategic leadership information technology management and business

analytics among others The knowledge compiled in this publication is designed for entrepreneurs managers executives investors economic analysts computer engineers software programmers human resource departments and other industry professionals seeking to understand the latest tools to emerge from this field and who are looking to incorporate them in their practice Additionally academicians researchers and students in fields that include but are not limited to business management science organizational development entrepreneurship sociology corporate psychology computer science and information technology will benefit from the research compiled within this publication

Human Factors in Computing Systems ,1999 **CHI 99 Conference Proceedings** Marian G. Williams,1999 *IEEE ... Workshop on Multimedia Signal Processing* ,2004 **Linguistics and Language Behavior Abstracts** ,2008 **Intelligent Virtual Agents** ,2005 *Modeling and Using Context* ,2005 **ACM Transactions on Computer-human Interaction** ,2005 Presents original research that spans the field of human computer interaction The primary emphasis has been on results of broad application but the journal also publishes work focused on special domains on special requirements on ethical issues the full range of design development and use of interactive systems *Multimodal Distinctive Behavior for Expressive Embodied Conversational Agents* Maurizio Mancini,2008-10-02 Embodied Conversational Agents ECAs are a new type of computer interface which have human like bodies and conversational skills Users interacting with agents will be more engaged and participative if the agents exhibit behaviors which look coherent across different situations and emotional states In the present work we aim at increasing agents believability by looking at two main aspects of the problem an agent must be able to show its emotional state and communicative intentions not only through specific facial expressions gestures etc but also by varying the quality of its movements e g their speed amplitude etc and the choice of the modalities that are used to communicate the agent must maintain a distinctive behavior that is its global behavior tendency has to remain apparent during any communication We have developed a model to solve the two above issues We have evaluated the realism and believability of the resulting agent s behaviors through perceptual tests and application scenario The resulting system is highly extensible and configurable It can also be used as a research tool to study human communication

Proceedings ,2002 **Assets** ,2005 **Social Sciences Index** ,1985 *Generation and Evaluation of Gesture Performance and Multimodal Coordination* Yingying Wang,2017 With the development of character animation virtual conversational characters have been widely used in entertainment education games and human computer interaction systems The goal of gesture research for virtual characters is to generate realistic conversational behavior Unlike general character animation gestures are never independent motion but always tightly correlated with behaviors from other modalities like utterances prosody facial expression gaze hand motion posture and body movement This dissertation consists of both generation and perception research that explores the relationship and coordination between gesture and text prosody hand motion and body motion for creating natural and expressive characters The synchronization of gesture and spoken text has significant repercussions for

character design To explore the synchronization of gesture and spoken text human sensitivity to gesture misalignments varying both the gesture type and the prosodic emphasis was examined This study not only suggested the preferred timing for gesture alignment it also found the varied influence of strong and weak prosodies Hand motion is an important component of gesture performance playing a central role in communication Due to the difficulty of hand motion capture research concerning hand pose and finger movement while gesturing is limited This research first adopted a novel data driven method for calibrating data glove sensors to capture accurate hand motions Evaluation experiments demonstrated that the introduced approach can capture hand motion with more accurate hand joint rotations and fingertip positions compared to previous work Based on hand motion collected using the proposed glove calibration method this dissertation further explored how hand pose and finger movement work together with gesture and body motion to influence the perception of conversational character Using the Big Five model a set of attributes likely to reflect personality was determined and hand motions varying these attributes was captured A series of perceptual experiments was conducted to examine the contribution of these attributes to the character s personalities Results from these experiments can be generalized as guidelines for designing detailed hand motions that coordinate well with gesture performance and add to the expressiveness and personality of characters For body motion previous research tended to focus on the coordination of gesture posture and body movement for a standing monologue character This research generalizes the problem definition by researching coordinated conversational behaviors for characters in locomotion taking different speaker listener roles among a dynamic group The novel stylized splicing method adapts gesture performance to body locomotion style synchronizes gesture emphasis to locomoting tempo simulates bouncing arms typically seen in jogging and adds attention gaze behavior between paired conversational partners It can synthesize highly diversified yet coordinated conversational behaviors for dynamic locomoting characters in large groups reusing pre existing gesture and locomotion clips To support multimodal systems a novel method to perform indexing retrieval and reconstruction tasks for motions from different body parts is introduced The multichannel deep autoencoder extracts highly condensed binary deep signatures from motion segments which can be used to produce a very compact representation of a large motion database Experiments show that motion indexing and retrieval using deep signature can be achieved at interactive speed with highly rated quality and scales well with large databases In summary this dissertation provides new insights for designing conversational characters with coordinated gesture performance spoken text prosody hand motion gaze and body movement from different modalities Working with multimodal data a novel method for organizing multichannel behaviors in a large motion database is proposed such that motion segments can be efficiently retrieved and reconstructed for data driven animation

Generation of Non-verbal Behavior for an Embodied Conversational Character Sola Grantham, Massachusetts Institute of Technology. Department of Electrical Engineering and Computer Science, 1998 This thesis discusses the generation of multi modal

conversational cues in animated computer characters Drawing from psycholinguistic literature of behaviors observed in human human interactions a study of turn taking cues in a human computer interaction and previous work in creating animated conversational agents I attempt to formulate a set of behaviors and appropriate times to produce these behaviors for a new conversational character Rea *Towards Expressive Perception and Generation in Human-Computer Conversational Interaction* Yaohua Bu,Runnan Li,Zhenwei You,2024-07-31

The construction of a natural interactive human computer interaction has become an integral component of intelligent system development constituting a core subject within the field of human computer interaction Grounded in the utilization of human perception theories this study proposes a robust method for speech emotion recognition and a model for inferring user emotional state changes thereby achieving a human computer interaction experience characterized by both listening and articulating and conveying sentiments effectively Simultaneously focusing on the audio visual modalities within human computer interaction this research explores methods for constructing interactive feedback in auditory and visual modalities within real human computer dialog scenarios This aims to synchronize textual verbal and visual expressions in human computer interaction enhancing its naturalness improving user experience and augmenting satisfaction and pleasure during interaction The research contributions are as follows Introducing a method that robustly identifies user emotional states in real human computer speech dialogue scenarios through the utilization of local and global attention mechanisms This method generates robust and distinguishable representations of speech emotion thereby enhancing the robustness and accuracy of speech emotion recognition systems in authentic dialogue scenarios *Multimodal Machine Learning for Human Conversational Behavior Analysis* Lingyu Zhang,2021

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