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# Life-Like Characters

Tools, Affective Functions, and Applications



Springer

# Life Like Characters Tools Affective Functions And Applications Cognitive Technologies

**Birgit Lugrin, Catherine  
Pelachaud, David Traum**



## **Life Like Characters Tools Affective Functions And Applications Cognitive Technologies:**

**Life-Like Characters** Helmut Prendinger, Mitsuru Ishizuka, 2004-01-22 Life like characters is one of the most exciting technologies for human computer interface applications today They convincingly take the roles of virtual presenters synthetic actors and sales personas teammates and tutors A common characteristic underlying their life likeness or believability as virtual conversational partners is computational models that provide them with affective functions such as synthetic emotions and personalities and implement human interactive behavior The wide dissemination of life like characters in multimedia systems however will greatly depend on the availability of control languages and tools that facilitate scripting of intelligent conversational behaviour This book presents the first comprehensive collection of the latest developments in scripting and representation languages for life like characters rounded off with an in depth comparison and synopsis of the major approaches Introducing toolkits for authoring animated characters further supports the ease of use of this new interface technology Life like characters being a vibrant research area various applications have been designed and implemented This book offers coverage of the most successful and promising applications ranging from product presentation and student training to knowledge integration and interactive gaming It also discusses the key challenges in the area and provides design guidelines for employing life like characters

Life-Like Characters Helmut Prendinger, Mitsuru Ishizuka, 2014-01-15 Life like characters is one of the most exciting technologies for human computer interface applications today They convincingly take the roles of virtual presenters synthetic actors and sales personas teammates and tutors A common characteristic underlying their life likeness or believability as virtual conversational partners is computational models that provide them with affective functions such as synthetic emotions and personalities and implement human interactive behavior The wide dissemination of life like characters in multimedia systems however will greatly depend on the availability of control languages and tools that facilitate scripting of intelligent conversational behaviour This book presents the first comprehensive collection of the latest developments in scripting and representation languages for life like characters rounded off with an in depth comparison and synopsis of the major approaches Introducing toolkits for authoring animated characters further supports the ease of use of this new interface technology Life like characters being a vibrant research area various applications have been designed and implemented This book offers coverage of the most successful and promising applications ranging from product presentation and student training to knowledge integration and interactive gaming It also discusses the key challenges in the area and provides design guidelines for employing life like characters

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Intelligent Technologies for Interactive Entertainment Mark Maybury, Oliviero Stock, Wolfgang Wahlster, 2005-11-18 This book constitutes the refereed proceedings of the First International Conference on Intelligent Technologies for Interactive Entertainment INTETAIN 2005 held in Madonna di Campiglio Italy in November December 2005 Among the intelligent computational technologies covered are adaptive media presentations recommendation systems in media scalable crossmedia affective user interfaces intelligent speech interfaces tele presence in entertainment collaborative user models and group behavior collaborative and virtual environments cross domain user models animation and virtual characters holographic interfaces augmented virtual and mixed reality computer graphics and multimedia pervasive multimedia creative language environments computational humour etc The 21 revised full papers and 15 short papers presented together with 12 demonstration papers were carefully reviewed and selected from a total of 39 submissions The papers cover a wide range of topics including intelligent interactive games intelligent music systems interactive cinema edutainment interactive art interactive museum guides city and tourism explorers assistants shopping assistants interactive real TV interactive social networks interactive storytelling personal diaries websites and blogs and comprehensive assisting environments for special populations impaired children elderly

**Gaming and Simulations: Concepts, Methodologies, Tools and Applications** Management Association, Information Resources, 2010-11-30 This book set unites fundamental research on the history current directions and implications of gaming at individual and organizational levels exploring all facets of game design and application and describing how this emerging discipline informs and is informed by society and culture Provided by publisher

*Affective and Emotional Aspects of Human-computer Interaction* Maja Pivec, 2006 The learning process can be seen as an emotional and personal experience that is addictive and motivates learners to proactive behavior Divided in three parts this title discusses major topics such as emotions motivation games and game experience

*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

#### **Handbook of Conversation Design for Instructional Applications**

Luppici, Rocci, 2008-01-31 Given the rapid growth of computer mediated communication there is an ever broadening range of social interactions With conversation as the bedrock on which social interactions are built there is growing recognition of the important role conversation has in instruction particularly in the design and development of technologically advanced educational environments The Handbook of Conversation Design for Instructional Applications presents key perspectives on the evolving area of conversation design bringing together a multidisciplinary body of work focused on the study of conversation and conversation design practices to inform instructional applications Offering multimodal instructional designers and developers authoritative content on the cutting edge issues and challenges in conversation design this book is a must have for reference library collections worldwide

#### **Perception and Interactive Technologies**

Elisabeth Andre, Laila Dybkjær, Wolfgang Minker, Heiko Neumann, Michael Weber, 2006-06-12 This book constitutes the refereed proceedings of the International Tutorial and Research Workshop on Perception and Interactive Technologies PIT 2006 held at Kloster Irsee Germany June 2006 The book presents 16 revised full papers together with 4 revised poster papers and 6 system demonstration papers organized in topical sections on head pose and eye gaze tracking modeling and simulation of perception integrating information from multiple channels and more

#### **Handbook of Research on Culturally-Aware Information Technology: Perspectives and Models**

Blanchard, Emmanuel G., Allard, Danièle, 2010-07-31 This book provides readers with the possibility of acquiring in depth knowledge of the theoretical and technological research conducted in IT in relation to culture Library of Congress

Smart Graphics Andreas Butz, 2007-06-12 This book constitutes the

refereed proceedings of the 8th International Symposium on Smart Graphics SG 2007 held in Kyoto Japan in June 2007 jointly with the Visual Computing Graphics and CAD symposium which takes place in Osaka Japan It covers interaction lifelike characters and affective computing knowledge based graphics generation and interaction and visualization and graphics algorithms

**Conversational Agents and Natural Language Interaction: Techniques and Effective Practices** Perez-Marin, Diana,Pascual-Nieto, Ismael,2011-06-30 This book is a reference guide for researchers entering the promising field of conversational agents providing an introduction to fundamental concepts in the field collecting experiences of researchers working on conversational agents and reviewing techniques for the design and application of conversational agents

Intelligent Tutoring Systems in E-Learning Environments: Design, Implementation and Evaluation Stankov, Slavomir,Glavinic, Vlado,Rosic, Marko,2010-07-31 This book addresses intelligent tutoring system ITS environments from the standpoint of information and communication technology ICT and the recent accomplishments within both the e learning paradigm and e learning systems Provided by publisher

SOFSEM 2006: Theory and Practice of Computer Science Jiri Wiedermann,2006-01-05 This book constitutes the refereed proceedings of the 32nd Conference on Current Trends in Theory and Practice of Computer Science SOFSEM 2006 held in Merin Czech Republic in January 2006 The 45 revised full papers including the best Student Research Forum paper presented together with 10 invited contributions were carefully reviewed and selected from 157 submissions The papers were organized in four topical tracks on computer science foundations wireless mobile ad hoc and sensor networks database technologies and semantic Web technologies

Technology and Mental Health Greg M. Reger,2020-10-12 Technology and Mental Health provides mental health clinicians with expert practical clinical advice on the questions and considerations associated with the adoption of mental health technology tools in the computer age Increasingly clinicians want to use technology to provide clients support through smartphones and mobile applications or to reach clients in remote or rural areas However using these tools in practice raises many practical and ethical questions The book explains current technological developments in therapy including mobile apps telemental health and virtual reality programs Each chapter gives real world guidance on adopting and using technology interventions and the book spans a wide range of populations Providers are introduced to the evidence supporting various technology based interventions and areas for future development Combining theory research and case studies this practical guide teaches clinicians how to integrate technology into therapeutic interventions with clients

*Intelligent Virtual Agents* Themis Panayiotopoulos,Jonathan Gratch,Ruth Aylett,Daniel Ballin,Patrick Olivier,Thomas Rist,2005-08-30 The origin of the Intelligent Virtual Agents conference dates from a successful workshop on Intelligent Virtual Environments held in Brighton at the 13th European Conference on Artificial Intelligence ECAI 98 This workshop was followed by a second one held in Salford in Manchester in 1999 Subsequent events took place in Madrid Spain in 2001 and Irsee Germany in 2003 and attracted participants from both sides of the Atlantic as well as Asia th This volume contains the proceedings of the 5

International Working Conference on Intelligent Virtual Agents IVA 2005 held on Kos Island Greece September 12-14 2005 which highlighted once again the importance and vigor of the research field. A half day workshop under the title Socially Competent IVA's We are not alone in this virtual world also took place as part of this event. IVA 2005 received 69 submissions from Europe North and South America Africa and Asia. The papers published here are the 26 full papers and 14 short papers presented at the conference as well as one page descriptions of the 15 posters and the descriptions of the featured invited talks by Prof Justine Cassell of Northwestern University and Prof Kerstin Dautenhahn of the University of Hertfordshire. We would like to thank a number of people that have contributed to the success of this conference. First of all we thank the authors for their high quality work and their willingness to share their ideas.

**Affective Computing and Intelligent Interaction** Jianhua Tao, Tieniu Tan, Rosalind W. Picard, 2005-11-15 This volume contains the proceedings of the 1st International Conference on Affective Computing and Intelligent Interaction ACII 2005 held in Beijing China on 22-24 October 2005. Traditionally the machine end of human machine interaction has been very passive and certainly has had no means of recognizing or expressing affective information. But without the ability to process such information computers cannot be expected to communicate with humans in a natural way. The ability to recognize and express affect is one of the most important features of man beings. We therefore expect that computers will eventually have to have the ability to process affect and to interact with human users in ways that are similar to those in which humans interact with each other. Affective computing and intelligent interaction is a key emerging technology that focuses on myriad aspects of the recognition understanding and expression of affective and emotional states by computers. The topic is currently a highly active research area and is receiving increasing attention. This strong interest is driven by a wide spectrum of promising applications such as virtual reality network games smart surveillance perceptual interfaces etc. Affective computing and intelligent interaction is a multidisciplinary topic involving psychology cognitive science physiology and computer science. ACII 2005 provided a forum for scientists and engineers to exchange their technical results and experiences in this fast moving and exciting field. A total of 45 oral papers and 82 poster papers included in this volume were selected from 205 contributions submitted by researchers worldwide.

**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

**Intelligent Virtual Agents** Jonathan Gratch, Michael Young, Ruth Aylett, Daniel Ballin, Patrick

Olivier, 2006-08-10 This book constitutes the refereed proceedings of the 6th International Workshop on Intelligent Virtual Agents IVA 2006 The book presents 24 revised full papers and 11 revised short papers together with 3 invited talks and the abstracts of 19 poster papers The papers are organized in topical sections on social impact of IVAs IVAs recognizing human behavior human interpretation of IVA behavior embodied conversational agents characteristics of nonverbal behavior and more

*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



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