Tieniu Tan   Yuanchun Shi   Wen Gao (Eds.)

Advances in Multimodal Interfaces — ICMI 2000

Third International Conference
Beijing, China, October 2000
Proceedings

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Advances in Multimodal Interfaces - ICMI 2000 Tieniu Tan,Yuanchun Shi,Wen Gao,2003-06-29 Multimodal Interfaces represents an emerging interdisciplinary research direction and has become one of the frontiers in Computer Science Multimodal interfaces aim at efficient convenient and natural interaction and communication between computers in their broadest sense and human users They will ultimately enable users to interact with computers using their everyday skills These proceedings include the papers accepted for presentation at the Third International Conference on Multimodal Interfaces ICMI 2000 held in Beijing China on 1416 O ctober 2000 The papers were selected from 172 contributions submitted worldwide Each paper was allocated for review to three members of the Program Committee which consisted of more than 40 leading researchers in the field Final decisions of 38 oral papers and 48 poster papers were made based on the reviewers comments and the desire for a balance of topics The decision to have a single track conference led to a competitive selection process and it is very likely that some good submissions are not included in this volume The papers collected here cover a wide range of topics such as affective and perceptual computing interfaces for wearable and mobile computing gestures and sign languages face and facial expression analysis multilingual interfaces virtual and augmented reality speech and handwriting multimodal integration and application systems They represent some of the latest progress in multimodal interfaces research   **Advances in Multimodal Interfaces - ICMI 2000** Tieniu Tan,Yuanchun Shi,Wen Gao,2000-09-29 Multimodal Interfaces represents an emerging interdisciplinary research direction and has become one of the frontiers in Computer Science Multimodal interfaces aim at efficient convenient and natural interaction and communication between computers in their broadest sense and human users They will ultimately enable users to interact with computers using their everyday skills These proceedings include the papers accepted for presentation at the Third International Conference on Multimodal Interfaces ICMI 2000 held in Beijing China on 1416 O ctober 2000 The papers were selected from 172 contributions submitted worldwide Each paper was allocated for review to three members of the Program Committee which consisted of more than 40 leading researchers in the field Final decisions of 38 oral papers and 48 poster papers were made based on the reviewers comments and the desire for a balance of topics The decision to have a single track conference led to a competitive selection process and it is very likely that some good submissions are not included in this volume The papers collected here cover a wide range of topics such as affective and perceptual computing interfaces for wearable and mobile computing gestures and sign languages face and facial expression analysis multilingual interfaces virtual and augmented reality speech and handwriting multimodal integration and application systems They represent some of the latest progress in multimodal interfaces research   **Multimodal Interface For Human-machine Communication** Pong Chi Yuen,Yuan Yan Tang,Patrick S P Wang,2002-04-10 With the advance of speech image and video technology human computer interaction HCI will reach a new phase In recent years HCI has been extended to human machine communication HMC and the

perceptual user interface PUI The final goal in HMC is that the communication between humans and machines is similar to human to human communication Moreover the machine can support human to human communication e g an interface for the disabled For this reason various aspects of human communication are to be considered in HMC The HMC interface called a multimodal interface includes different types of input methods such as natural language gestures face and handwriting characters The nine papers in this book have been selected from the 92 high quality papers constituting the proceedings of the 2nd International Conference on Multimodal Interface ICMI 99 which was held in Hong Kong in 1999 The papers cover a wide spectrum of the multimodal interface   Encyclopedia of Language and Linguistics ,2005-11-24 The first edition of ELL 1993 Ron Asher Editor was hailed as the field s standard reference work for a generation Now the all new second edition matches ELL s comprehensiveness and high quality expanded for a new generation while being the first encyclopedia to really exploit the multimedia potential of linguistics The most authoritative up to date comprehensive and international reference source in its field An entirely new work with new editors new authors new topics and newly commissioned articles with a handful of classic articles The first Encyclopedia to exploit the multimedia potential of linguistics through the online edition Ground breaking and International in scope and approach Alphabetically arranged with extensive cross referencing Available in print and online priced separately The online version will include updates as subjects develop ELL2 includes c 7 500 000 words c 11 000 pages c 3 000 articles c 1 500 figures 130 halftones and 150 colour Supplementary audio video and text files online c 3 500 glossary definitions c 39 000 references Extensive list of commonly used abbreviations List of languages of the world including information on no of speakers language family etc Approximately 700 biographical entries now includes contemporary linguists 200 language maps in print and online Also available online via ScienceDirect featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy For more information pricing options and availability visit www info sciencedirect com The first Encyclopedia to exploit the multimedia potential of linguistics Ground breaking in scope wider than any predecessor An invaluable resource for researchers academics students and professionals in the fields of linguistics anthropology education psychology language acquisition language pathology cognitive science sociology the law the media medicine computer science The most authoritative up to date comprehensive and international reference source in its field   Algorithms in Ambient Intelligence W. Verhaegh,Emile Aarts,Jan Korst,2013-03-09 The advent of the digital era the Internet and the development of fast com puting devices that can access mass storage servers at high communication bandwidths have brought within our reach the world of ambient intelligent systems These systems provide users with information communication and entertainment at any desired place and time Since its introduction in 1998 the vision of Ambient Intelligence has attracted much attention within the re search community Especially the need for intelligence generated by smart al gorithms which run on digital platforms that are integrated into consumer elec tronics

devices has strengthened the interest in Computational Intelligence This newly developing research field which can be positioned at the inter section of computer science discrete mathematics and artificial intelligence contains a large variety of interesting topics including machine learning con tent management vision speech data mining content augmentation profiling contextual awareness feature extraction resource management security and privacy **Multimodal Interaction with Mobile Devices** Rainer Wasinger,2006 *Advances in Natural Multimodal Dialogue Systems* Jan van Kuppevelt,Laila Dybkjær,Niels Ole Bernsen,2006-06-28 References 74 Part II Annotation and Analysis of Multimodal Data Speech and Gesture 4 FORM 79 Craig H Martell 1 Introduction 79 2 Structure of FORM 80 3 Annotation Graphs 85 4 Annotation Example 86 5 Preliminary Inter Annotator Agreement Results 88 6 Conclusion Applications to HLT and HCI 90 Appendix Other Tools Schemes and Methods of Gesture Analysis 91 References 95 5 97 On the Relationships among Speech Gestures and Object Manipulation in Virtual Environments Initial Evidence Andrea Corradini and Philip R Cohen 1 Introduction 97 2 Study 99 3 Data Analysis 101 4 Results 103 5 Discussion 106 6 Related Work 106 7 Future Work 108 8 Conclusions 108 Appendix Questionnaire MYST III EXILE 110 References 111 6 113 Analysing Multimodal Communication Patrick G T Healey Marcus Colman and Mike Thirlwell 1 Introduction 113 2 Breakdown and Repair 117 3 Analysing Communicative Co ordination 125 4 Discussion 126 References 127 7 131 Do Oral Messages Help Visual Search No lle Carbonell and Suzanne Kieffer 1 Context and Motivation 131 2 Methodology and Experimental Set Up 134 3 Results Presentation and Discussion 141 4 Conclusion 153 References 154 Contents vii 8 159 Geometric and Statistical Approaches to Audiovisual Segmentation Trevor Darrell John W Fisher III Kevin W Wilson and Michael R Siracusa 1 Introduction 159 2 Related Work 160 3 Multimodal Multisensor Domain 162 4 Results 166 5 Single Multimodal Sensor Domain 167 6 *New Handbook of Methods in Nonverbal Behavior Research* Jinni Harrigan,Robert Rosenthal,Klaus Scherer,2008-03-13 Now available in paperback the New Handbook of Methods in Nonverbal Behavior Research includes chapters on coding and methodological issues for a variety of areas in nonverbal behavior facial actions vocal behavior and body movement *Proceedings of the International Conference on Information Technology & Systems (ICITS 2018)* Álvaro Rocha,Teresa Guarda,2018-01-04 This book includes a selection of articles from the 2018 International Conference on Information Technology organizational models and information systems software and systems modeling software systems architectures applications and tools multimedia systems and applications computer networks mobility and pervasive systems intelligent and decision support systems big data analytics and applications human computer interaction ethics computers health informatics and information technologies in education **Intelligent Virtual Agents** Thomas Rist,Ruth Aylett,Daniel Ballin,Jeff Rickel,2003-09-09 This volume containing the proceedings of IVA 2003 held at Kloster Irsee in Germany September 15 17 2003 is testimony to the growing importance of IntelligentVirtualAgents IVAs asaresearch eld Wereceived67submissions nearly twice as many as for IVA 2001 not only from European countries but from China Japan and Korea and both North and South America As IVA

research develops a growing number of application areas and pl forms are also being researched Interface agents are used as part of larger plications often on the Web Education applications draw on virtual actors and virtual drama while the advent of 3D mobile computing and the convergence of telephones and PDAs produce geographically aware guides and mobile tertainment applications A theme that will be apparent in a number of the papers in this volume is the impact of embodiment on IVA research a char teristic di erentiating it to some extent from the larger eld of software agents

Proceedings of the 2nd International Conference on Big Data, IoT and Machine Learning Mohammad Shamsul Arefin,M. Shamim Kaiser,Touhid Bhuiyan,Nilanjan Dey,Mufti Mahmud,2024-03-29 This book gathers a collection of high quality peer reviewed research papers presented at the International Conference on Big Data IoT and Machine Learning BIM 2023 organised by Jahangirnagar University Bangladesh and Daffodil International University Bangladesh held in Dhaka Bangladesh during 6 8 September 2023 The book covers research papers in the field of big data IoT and machine learning The book is helpful for active researchers and practitioners in the field   **New Advances in Virtual Humans** Nadia Magnenat-Thalmann,N. Ichalkaranje,2008-07-23 In this book various aspects of cognitive and emotional behaviour is described In chapter one a state of the art introduction to VH is presented and the associated research is given In Chapter 2 cognitive and emotions processes are described A Comprehensive context model for multi party interactions with the VH is given in the next chapter Finally it is very important to model the socializing of groups of virtual humans This is discussed in Chapter 4 The automatic modelling of expressions for VH is described in Chapter 5 The last chapter gives a case study of an intelligent kios avatar and its usability This book gives examples of some advances that enable VH to behave intelligently It provides an overview of these research problems and some unsolved problems   Multimodal Interface Holly S. Vitense,2002   *Multi-Agent Systems for Education and Interactive Entertainment: Design, Use and Experience* Beer, Martin,Fasli, Maria,Richards, Debbie,2010-11-30 This book presents readers with a rich collection of ideas from researchers who are exploring the complex tradeoffs that must be made in designing agent systems for education and interactive entertainment Provided by publisher   The Universal Access Handbook Constantine Stephanidis,2009-06-11 In recent years the field of Universal Access has made significant progress in consolidating theoretical approaches scientific methods and technologies as well as in exploring new application domains Increasingly professionals in this rapidly maturing area require a comprehensive and multidisciplinary resource that addresses current principles methods and tools Written by leading international authorities from academic research and industrial organizations and nonmarket institutions The Universal Access Handbook covers the unfolding scientific methodological technological and policy issues involved in the process of achieving universal access in the information society In a collection of 61 chapters the book discusses how to systematically apply universal design principles to information technologies It explains the various dimensions of diversity in the technological platforms and contexts of use including trends in mobile interaction and ambient intelligence environments

The implications of Universal Access on the development life cycle of interactive applications and services are unfolded addressing user interface architectures and related components Novel interaction methods and techniques for Universal Access are analyzed and a variety of applications in diverse domains are discussed The book reflects recent developments consolidates present knowledge and points towards new perspectives for the future A quick glance through the contents demonstrates not only the breadth and depth of coverage but also the caliber of the contributions An indispensible source of information for interdisciplinary and cross thematic study the book provides a baseline for further in depth studies as well as an important educational tool in an increasingly globalized research and development environment   Recent Advances on Soft Computing and Data Mining Rozaida Ghazali,Nazri Mohd Nawi,Mustafa Mat Deris,Jemal H. Abawajy,2019-12-04 This book provides an introduction to data science and offers a practical overview of the concepts and techniques that readers need to get the most out of their large scale data mining projects and research studies It discusses data analytical thinking which is essential to extract useful knowledge and obtain commercial value from the data Also known as data driven science soft computing and data mining disciplines cover a broad interdisciplinary range of scientific methods and processes The book provides readers with sufficient knowledge to tackle a wide range of issues in complex systems bringing together the scopes that integrate soft computing and data mining in various combinations of applications and practices since to thrive in these data driven ecosystems researchers data analysts and practitioners must understand the design choice and options of these approaches This book helps readers to solve complex benchmark problems and to better appreciate the concepts tools and techniques used   **Proceedings of International Conference on Trends in Computational and Cognitive Engineering** M. Shamim Kaiser,Anirban Bandyopadhyay,Mufti Mahmud,Kanad Ray,2020-12-16 This book presents various computational and cognitive modeling approaches in the areas of health education finance environment engineering commerce and industry It is a collection of selected conference papers presented at the International Conference on Trends in Computational and Cognitive Engineering TCCE 2020 It shares cutting edge insights and ideas from mathematicians engineers scientists and researchers and discusses fresh perspectives on problem solving in a range of research areas

Human Attention in Digital Environments Claudia Roda,2011-02-03 Digital systems such as phones computers and PDAs place continuous demands on our cognitive and perceptual systems They offer information and interaction opportunities well above our processing abilities and often interrupt our activity Appropriate allocation of attention is one of the key factors determining the success of creative activities learning collaboration and many other human pursuits This book presents research related to human attention in digital environments Original contributions by leading researchers cover the conceptual framework of research aimed at modelling and supporting human attentional processes the theoretical and software tools currently available and various application areas The authors explore the idea that attention has a key role to play in the design of future technology and discuss how such technology may continue supporting human activity in

environments where multiple devices compete for people s limited cognitive resources **AI 2012: Advances in Artificial Intelligence** Michael Thielscher,Dongmo Zhang,2013-02-01 This book constitutes the refereed proceedings of the 25th Australasian Joint Conference on Artificial Intelligence AI 2012 held in Sydney Australia in December 2012 The 76 revised full papers presented were carefully reviewed and selected from 196 submissions The papers address a wide range of agents applications computer vision constraints and search game playing information retrieval knowledge representation machine learning planning and scheduling robotics and uncertainty in AI **Human Machine Interaction** Denis Lalanne,Juerg Kohlas,2009-03-27 Human Machine Interaction or more commonly Human Computer Interaction is the study of interaction between people and computers It is an interdisciplinary field connecting computer science with many other disciplines such as psychology sociology and the arts The present volume documents the results of the MMI research program on Human Machine Interaction involving 8 projects selected from a total of 80 proposals funded by the Hasler Foundation between 2005 and 2008 These projects were also partially funded by the associated universities and other third parties such as the Swiss National Science Foundation This state of the art survey begins with three chapters giving overviews of the domains of multimodal user interfaces interactive visualization and mixed reality These are followed by eight chapters presenting the results of the projects grouped according to the three aforementioned themes

Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Advances In Multimodal Interfaces Icmi 2000 Advances In Multimodal Interfaces Icmi**

In a global inundated with screens and the cacophony of fast connection, the profound power and psychological resonance of verbal art usually disappear in to obscurity, eclipsed by the regular onslaught of noise and distractions. However, set within the lyrical pages of **Advances In Multimodal Interfaces Icmi 2000 Advances In Multimodal Interfaces Icmi** , a fascinating function of literary brilliance that pulses with raw feelings, lies an memorable journey waiting to be embarked upon. Written by way of a virtuoso wordsmith, this mesmerizing opus manuals readers on a psychological odyssey, gently exposing the latent possible and profound affect embedded within the complicated web of language. Within the heart-wrenching expanse with this evocative examination, we shall embark upon an introspective exploration of the book is main themes, dissect its fascinating publishing type, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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