

FACE DETECTION AND GESTURE RECOGNITION FOR HUMAN-COMPUTER INTERACTION

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Face Detection And Gesture Recognition For Human Computer Interaction

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Face Detection And Gesture Recognition For Human Computer Interaction:

Face Detection and Gesture Recognition for Human-Computer Interaction Ming-Hsuan Yang, Narendra Ahuja, 2012-12-06 Traditionally scientific fields have defined boundaries and scientists work on research problems within those boundaries. However, from time to time those boundaries get shifted or blurred to evolve new fields. For instance, the original goal of computer vision was to understand a single image of a scene by identifying objects, their structure, and spatial arrangements. This has been referred to as image understanding. Recently, computer vision has gradually been making the transition away from understanding single images to analyzing image sequences or video understanding. Video understanding deals with understanding of video sequences, e.g., recognition of gestures, activities, facial expressions, etc. The main shift in the classic paradigm has been from the recognition of static objects in the scene to motion-based recognition of actions and events. Video understanding has overlapping research problems with other fields, therefore blurring the fixed boundaries. Computer graphics, image processing, and video databases have obvious overlap with computer vision. The main goal of computer graphics is to generate and animate realistic-looking images and videos. Researchers in computer graphics are increasingly employing techniques from computer vision to generate the synthetic imagery. A good example of this is image-based rendering and modeling techniques in which geometry, appearance, and lighting is derived from real images using computer vision techniques. Here, the shift is from synthesis to analysis followed by synthesis.

Computer Vision in Human-Computer Interaction Nicu Sebe, Michael S. Lew, 2005-10-10 This book constitutes the refereed proceedings of the International Workshop on Human Computer Interaction HCI/ICCV 2005 held in Beijing, China, in October 2005, within the scope of ICCV 2005, the International Conference on Computer Vision. The 22 revised full papers presented were carefully reviewed and selected from 74 submissions. The papers address a wide range of theoretical and application issues in human computer interaction, ranging from human robot interaction, gesture recognition, and body tracking to facial features analysis and human computer interaction systems, and are organized in topical sections on tracking, interfacing, event detection, augmented reality, hand and gesture, as well as applications.

Human-Computer Interaction: Interaction Techniques and Environments Julie A. Jacko, 2011-06-24 This four-volume set LNCS 6761-6764 constitutes the refereed proceedings of the 14th International Conference on Human Computer Interaction HCII 2011 held in Orlando, FL, USA, in July 2011, jointly with 8 other thematically similar conferences. The revised papers presented were carefully reviewed and selected from numerous submissions. The papers accepted for presentation 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. The papers of this volume are organized in topical sections on touch-based and haptic interaction, gaze and gesture-based interaction, voice, natural language, and dialogue, novel interaction techniques and devices, and avatars and embodied interaction.

Visual Affect Recognition Ioanna-Ourania Stathopoulou, 2010 It is generally known that human faces as

well as body motions and gestures provide a wealth of information about a person such as age race sex and emotional state This monograph primarily studies the perception of facial expression of emotion and secondarily of motion and gestures with the purpose of developing a fully automated visual affect recognition system for use in modes of human computer interaction The book begins with a survey of the literature on emotion perception followed by a description of empirical studies conducted with human participants and the construction of a face image database On the basis of this work a visual affect recognition system was developed consisting of two modules a face detection subsystem and a facial expression recognition subsystem Details of this system are demonstrated and analyzed and extensive performance evaluations and test results are provided Finally current research avenues leading to visual affect recognition via analysis of body motion and gestures are also discussed

Real-Time Vision for Human-Computer Interaction Branislav Kisacanin,Vladimir Pavlovic,Thomas S. Huang,2005-12-06 200Ts Vision of Vision One of my formative childhood experiences was in 1968 stepping into the Uptown Theater on Connecticut Avenue in Washington DC one of the few movie theaters nationwide that projected in large screen cinerama I was there at the urging of a friend who said I simply must see the remarkable film whose run had started the previous week You won t understand it he said but that doesn t matter All I knew was that the film was about science fiction and had great special effects So I sat in the front row of the balcony munched my popcorn sat back and experienced what was widely touted as the ultimate trip 2001 A Space Odyssey My friend was right I didn t understand it but in some senses that didn t matter Even today after seeing the film 40 times I continue to discover its many subtle secrets I just had the sense that I had experienced a creation of the highest aesthetic order unique fresh awe inspiring Here was a film so distinctive that the first half hour had no words whatsoever the last half hour had no words either and nearly all the words in between were banal and irrelevant to the plot quips about security through Voiceprint identification how to make a phonecall from a space station government pension plans and so on

Image Processing and Intelligent Computing Systems Prateek Singhal,Abhishek Verma,Prabhat Kumar Srivastava,Virender Ranga,Ram Kumar,2023-01-17 There is presently a drastic growth in multimedia data During the Covid 19 pandemic we observed that images helped doctors immensely in the rapid detection of Covid 19 infection in patients There are many critical applications in which images play a vital role These applications use raw image data to extract some useful information about the world around us The quick extraction of valuable information from raw images is one challenge that academicians and professionals face in the present day This is where image processing comes into action Image processing s primary purpose is to get an enhanced image or extract some useful information from raw image data Therefore there is a major need for some technique or system that addresses this challenge Intelligent Systems have emerged as a solution to address quick image information extraction In simple words an Intelligent System can be defined as a mathematical model that adapts itself to deal with a problem s dynamicity These systems learn how to act so an image can reach an objective An Intelligent System helps accomplish various image

processing functions like enhancement segmentation reconstruction object detection and morphing The advent of Intelligent Systems in the image processing field has leveraged many critical applications for humankind These critical applications include factory automation biomedical imaging analysis decision econometrics as well as related challenges

Human Computer Interaction Kikuo Asai,2008-10-01 The book consists of 20 chapters each addressing a certain aspect of human computer interaction Each chapter gives the reader background information on a subject and proposes an original solution This should serve as a valuable tool for professionals in this interdisciplinary field Hopefully readers will contribute their own discoveries and improvements innovative ideas and concepts as well as novel applications and business models related to the field of human computer interaction It is our wish that the reader consider not only what our authors have written and the experimentation they have described but also the examples they have set

Intelligent Virtual Agents Zsófia Ruttkay,Michael Kipp,Anton Nijholt,Hannes Högni Vilhjálmsson,2009-09-03 Welcome to the proceedings of the 9th International Conference on Intelligent Virtual Agents held September 14 16 2009 in Amsterdam The Netherlands Intelligent virtual agents IVAs are interactive characters that exhibit hum like qualities and communicate with humans or with each other using natural human modalities such as speech and gesture They are capable of real time perception cognition and action allowing them to participate in a dynamic physical and social environment IVA is an interdisciplinary annual conference and the main forum for presenting research on modeling developing and evaluating IVAs with a focus on communicative abilities and social behavior The development of IVAs requires expertise in multimodal interaction and several AI elds such as cognitive m eling planning vision and natural language processing Computational models are typically based on experimental studies and theories of human human and human robot interaction conversely IVA technology may provide interesting lessons for these elds The realization of engaging IVAs is a challenging task so reusable modules and tools are of great value The elds of application range from robot assistants social simulation and tutoring to games and artistic ploration

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

Guide to Biometric Reference Systems and Performance Evaluation Dijana Petrovska-Delacrétaz,Gérard Chollet,Bernadette Dorizzi,2009-04-05 Biometrics has moved from using fingerprints to using many methods of assessing human physical and behavioral traits This guide introduces a new performance evaluation framework designed to offer full coverage of performance evaluation of

biometric systems Facial Analysis from Continuous Video with Applications to Human-Computer Interface Antonio J. Colmenarez,Ziyou Xiong,T-S. Huang,2005-12-17 Computer vision algorithms for the analysis of video data are obtained from a camera aimed at the user of an interactive system It is potentially useful to enhance the interface between users and machines These image sequences provide information from which machines can identify and keep track of their users recognize their facial expressions and gestures and complement other forms of human computer interfaces Facial Analysis from Continuous Video with Applications to Human Computer Interfaces presents a learning technique based on information theoretic discrimination which is used to construct face and facial feature detectors This book also describes a real time system for face and facial feature detection and tracking in continuous video Finally this book presents a probabilistic framework for embedded face and facial expression recognition from image sequences Facial Analysis from Continuous Video with Applications to Human Computer Interfaces is designed for a professional audience composed of researchers and practitioners in industry This book is also suitable as a secondary text for graduate level students in computer science and engineering Computer Vision in Human-Computer Interaction Thomas S. Huang,Nicu Sebe,Michael S. Lew,Vladimir Pavlovic,Mathias Kölsch,Aphrodite Galata,Branislav Kisacanin,2006-05-04 This book constitutes the refereed proceedings of the International Workshop on Human Computer Interaction HCI ECCV 2006 The 11 revised full papers presented were carefully reviewed and selected from 27 submissions The papers address a wide range of theoretical and application issues in human computer interaction ranging from face analysis gesture and emotion recognition and event detection to various applications in those fields Intelligent Interactive Systems in Knowledge-Based Environments Maria Virvou,2008-06-24 The primary aim of this up to date research book is to report a sample of the most recent advances in the field of intelligent interactive systems in knowledge based environments It contains recent research and case studies of intelligent interactive systems This book will prove useful to researchers professors research students and practitioners as it reports novel research work on innovative topics in the area of intelligent interactive systems Gesture in Human-Computer Interaction and Simulation Sylvie Gibet,Nicolas Courty,Jean-Francois Kamp,2006-03-16 This book constitutes the thoroughly refereed post proceedings of the 6th International Workshop on Gesture in Human Computer Interaction and Simulation GW 2005 held in May 2005 The 22 revised long papers and 14 revised short papers presented together with 2 invited lectures were carefully selected from numerous submissions during two rounds of reviewing and improvement The papers are organized in topical sections on human perception and production of gesture sign language representation sign language recognition vision based gesture recognition gesture analysis gesture synthesis gesture and music and gesture interaction in multimodal systems *Automated Face Analysis: Emerging Technologies and Research* Kim, Daijin,Sung, Jaewon,2009-03-31 This book provides related theoretical background to understand the overall configuration and challenging problem of automated face analysis systems Provided by publisher Human-Computer Interaction. Interaction Platforms and Techniques Masaaki

Kurosu,2016-07-04 The 3 volume set LNCS 9731 9732 and 9733 constitutes the refereed proceedings of the 18th International Conference on Human Computer Interaction HCII 2016 held in Toronto ON Canada in July 2016 The total of 1287 papers and 186 posters presented at the HCII 2016 conferences and were carefully reviewed and selected from 4354 submissions 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 The volumes constituting the full 27 volume set of the conference proceedings *Assistive Technologies and Computer Access for Motor Disabilities* Kouroupetroglou, Georgios,2013-08-31 Individuals with disabilities that impede their range of motion often have difficulty accessing technologies With the use of computer based assistive technology devices tools and services can be used to maintain and improve the functional capabilities of motor disabilities Assistive Technologies and Computer Access for Motor Disabilities investigates solutions to the difficulties of impaired technology access by highlighting the principles methods and advanced technological solutions for those with motor impairments This reference source is beneficial to academia industry and various professionals in disciplines such as rehabilitation science occupational therapy human computer interface development ergonomics and teaching in inclusive and special education This publication is integrated with its pair book Disability Informatics and Web Accessibility for Motor Limitations **Computer Vision - ECCV 2008** David Forsyth,Philip Torr,Andrew Zisserman,2008-10-07 The four volume set comprising LNCS volumes 5302 5303 5304 5305 constitutes the refereed proceedings of the 10th European Conference on Computer Vision ECCV 2008 held in Marseille France in October 2008 The 243 revised papers presented were carefully reviewed and selected from a total of 871 papers submitted The four books cover the entire range of current issues in computer vision The papers are organized in topical sections on recognition stereo people and face recognition object tracking matching learning and features MRFs segmentation computational photography and active reconstruction **Human-Computer Interaction - INTERACT 2019** David Lamas,Fernando Loizides,Lennart Nacke,Helen Petrie,Marco Winckler,Panayiotis Zaphiris,2019-08-24 The four volume set LNCS 11746 11749 constitutes the proceedings of the 17th IFIP TC 13 International Conference on Human Computer Interaction INTERACT 2019 held in Paphos Cyprus in September 2019 The total of 111 full papers presented together with 55 short papers and 48 other papers in these books was carefully reviewed and selected from 385 submissions The contributions are organized in topical sections named Part I accessibility design principles assistive technology for cognition and neurodevelopment disorders assistive technology for mobility and rehabilitation assistive technology for visually impaired co design and design methods crowdsourcing and collaborative work cyber security and e voting systems design methods design principles for safety critical systems Part II e commerce education and HCI curriculum I education and HCI curriculum II eye gaze interaction games and gamification human robot interaction and 3D interaction information visualization information visualization and augmented reality interaction design for culture and development I Part III interaction design for culture

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Intelligent Robotics and Applications Huayong Yang, Honghai Liu, Jun Zou, Zhouping Yin, Lianqing Liu, Geng Yang, Xiaoping Ouyang, Zhiyong Wang, 2023-10-12 The 9 volume set LNAI 14267 14275 constitutes the proceedings of the 16th International Conference on Intelligent Robotics and Applications ICIRA 2023 which took place in Hangzhou China during July 5 7 2023 The 413 papers included in these proceedings were carefully reviewed and selected from 630 submissions They were organized in topical sections as follows Part I Human Centric Technologies for Seamless Human Robot Collaboration Multimodal Collaborative Perception and Fusion Intelligent Robot Perception in Unknown Environments Vision Based Human Robot Interaction and Application Part II Vision Based Human Robot Interaction and Application Reliable AI on Machine Human Reactions Wearable Sensors and Robots Wearable Robots for Assistance Augmentation and Rehabilitation of Human Movements Perception and Manipulation of Dexterous Hand for Humanoid Robot Part III Perception and Manipulation of Dexterous Hand for Humanoid Robot Medical Imaging for Biomedical Robotics Advanced Underwater Robot Technologies Innovative Design and Performance Evaluation of Robot Mechanisms Evaluation of Wearable Robots for Assistance and Rehabilitation 3D Printing Soft Robots Part IV 3D Printing Soft Robots Dielectric Elastomer Actuators for Soft Robotics Human like Locomotion and Manipulation Pattern Recognition and Machine Learning for Smart Robots Part V Pattern Recognition and Machine Learning for Smart Robots Robotic Tactile Sensation Perception and Applications Advanced Sensing and Control Technology for Human Robot Interaction Knowledge Based Robot Decision Making and Manipulation Design and Control of Legged Robots Part VI Design and Control of Legged Robots Robots in Tunnelling and Underground Space Robotic Machining of Complex Components Clinically Oriented Design in Robotic Surgery and Rehabilitation Visual and Visual Tactile Perception for Robotics Part VII Visual and Visual Tactile Perception for Robotics Perception Interaction and Control of Wearable Robots Marine Robotics and Applications Multi Robot Systems for Real World Applications Physical and Neurological Human Robot Interaction Part VIII Physical and Neurological Human Robot Interaction Advanced Motion Control Technologies for Mobile Robots Intelligent Inspection Robotics Robotics in Sustainable Manufacturing for Carbon Neutrality Innovative Design and Performance Evaluation of Robot Mechanisms Part IX Innovative Design and Performance Evaluation of Robot Mechanisms Cutting Edge Research in Robotics

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