

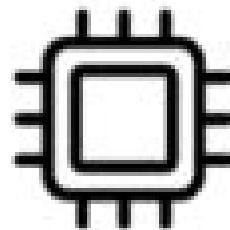
Emotion Recognition: How Computers See Through Our Emotions

Capture



Collecting emotional cues such as facial expressions, voice tone and body language.

Process



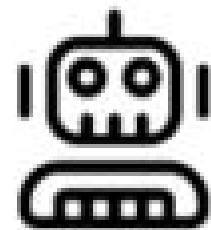
Analyzing the collected cues using machine learning algorithms and computer vision techniques.

Interpret



Assigning a label to the emotion conveyed by the cues, for example, happy, sad, angry, or surprised.

Respond



Generating a response based on the recognized emotion, for instance, an avatar that creates facial expressions that mimic the user's emotions.

Affective Computing Affective Computing

Christian Peter, Russell Beale

Affective Computing **Affective Computing:**

Affective Computing Rosalind W. Picard,2000-07-24 According to Rosalind Picard if we want computers to be genuinely intelligent and to interact naturally with us we must give computers the ability to recognize understand even to have and express emotions The latest scientific findings indicate that emotions play an essential role in decision making perception learning and more that is they influence the very mechanisms of rational thinking Not only too much but too little emotion can impair decision making According to Rosalind Picard if we want computers to be genuinely intelligent and to interact naturally with us we must give computers the ability to recognize understand even to have and express emotions Part 1 of this book provides the intellectual framework for affective computing It includes background on human emotions requirements for emotionally intelligent computers applications of affective computing and moral and social questions raised by the technology Part 2 discusses the design and construction of affective computers Although this material is more technical than that in Part 1 the author has kept it less technical than typical scientific publications in order to make it accessible to newcomers Topics in Part 2 include signal based representations of emotions human affect recognition as a pattern recognition and learning problem recent and ongoing efforts to build models of emotion for synthesizing emotions in computers and the new application area of affective wearable computers

Applied Affective Computing Leimin Tian,Sharon Oviatt,Michal Muszynski,Brent Chamberlain,Jennifer Healey,Akane Sano,2022-02-04 Affective computing is a nascent field situated at the intersection of artificial intelligence with social and behavioral science It studies how human emotions are perceived and expressed which then informs the design of intelligent agents and systems that can either mimic this behavior to improve their intelligence or incorporate such knowledge to effectively understand and communicate with their human collaborators Affective computing research has recently seen significant advances and is making a critical transformation from exploratory studies to real world applications in the emerging research area known as applied affective computing This book offers readers an overview of the state of the art and emerging themes in affective computing including a comprehensive review of the existing approaches to affective computing systems and social signal processing It provides in depth case studies of applied affective computing in various domains such as social robotics and mental well being It also addresses ethical concerns related to affective computing and how to prevent misuse of the technology in research and applications Further this book identifies future directions for the field and summarizes a set of guidelines for developing next generation affective computing systems that are effective safe and human centered For researchers and practitioners new to affective computing this book will serve as an introduction to the field to help them in identifying new research topics or developing novel applications For more experienced researchers and practitioners the discussions in this book provide guidance for adopting a human centered design and development approach to advance affective computing

The ^AOxford Handbook of Affective Computing Rafael A. Calvo,Sidney D'Mello,Jonathan Gratch,Arvid Kappas,2014-12-02 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

Affective Computing

Computing and Sentiment Analysis Khurshid Ahmad,2011-08-24 This volume maps the watershed areas between two holy grails of computer science the identification and interpretation of affect including sentiment and mood The expression of sentiment and mood involves the use of metaphors especially in emotive situations Affect computing is rooted in hermeneutics philosophy political science and sociology and is now a key area of research in computer science The 24 7 news sites and blogs facilitate the expression and shaping of opinion locally and globally Sentiment analysis based on text and data mining is being used in the looking at news and blogs for purposes as diverse as brand management film reviews financial market analysis and prediction homeland security There are systems that learn how sentiments are articulated This work draws on and informs research in fields as varied as artificial intelligence especially reasoning and machine learning corpus based information extraction linguistics and psychology

Affect and Emotion in Human-Computer Interaction

Christian Peter,Russell Beale,2008-08-25 Affect and emotion play an important role in our everyday lives They are present whatever we do wherever we are and wherever we go without us being aware of them for much of the time When it comes to interaction be it with humans technology or humans via technology we suddenly become more aware of emotion either by seeing the other s emotional expression or by not getting an emotional response while anticipating one Given this it seems only sensible to explore affect and emotion in human computer interaction to investigate the underlying principles to study the role they play to develop methods to quantify them and to finally build applications that make use of them This is the research field for which over ten years ago Rosalind Picard coined the phrase affective computing The present book provides an account of the latest work on a variety of aspects related to affect and emotion in human technology interaction It covers theoretical issues user experience and design aspects as well as sensing issues and reports on a number of affective applications that have been developed in recent years

Affective Computing Jimmy Or,2008-05-01

This book provides an overview of state of the art research in Affective Computing It presents new ideas original results and practical experiences in this increasingly important research field The book consists of 23 chapters categorized into four sections Since one of the most important means of human communication is facial expression the first section of this book Chapters 1 to 7 presents a research on synthesis and recognition of facial expressions Given that we not only use the face but also body movements to express ourselves in the second section Chapters 8 to 11 we present a research on perception and generation of emotional

expressions by using full body motions The third section of the book Chapters 12 to 16 presents computational models on emotion as well as findings from neuroscience research In the last section of the book Chapters 17 to 22 we present applications related to affective computing *Affective Computing and Intelligent Interaction* Jianhua Tao,Tieniu Tan,2005-10-27 This book constitutes the refereed proceedings of the First International Conference on Affective Computing and Intelligent Interaction ACII 2005 held in Beijing China in October 2005 as an associated event of ICCV 2005 the International Conference on Computer Vision The 45 revised full papers and 81 revised poster papers presented were carefully reviewed and selected from 198 submissions They cover a wide range of topics such as facial expression recognition face animation emotional speech synthesis intelligent agent and virtual reality The papers are organized in topical sections on affective face and gesture processing affective speech processing evaluation of affective expressivity affective database annotation and tools psychology and cognition of affect and affective interaction and systems and applications **Affective Interactions** Ana Paiva,2006-12-30 Affective computing is a fascinating new area of research emerging in computer science It dwells on problems where computing is related to arises from or deliberately influences emotions Picard 1997 Following this new research direction and considering the human element as crucial in designing and implementing interactive intelligent interfaces affective computing is now influencing the way we shape design construct and evaluate human computer interaction and computer mediated communication This book originates from a workshop devoted to affective interactions It presents revised full versions of several papers accepted in preliminary version for the workshop and various selectively solicited papers by key people as well as an introductory survey by the volume editor and interview with Rosalind Picard a pioneer researcher in the field The book competently assesses the state of the art in this fascinating new field

Affective Computing and Intelligent Interaction Sidney D'Mello,Arthur Graesser,Bjoern Schuller,Jean-Claude Martin,2011-09-23 This volume constitutes the refereed proceedings of the Fourth International Conference on Affective Computing and Intelligent Interaction ACII 2011 held in Memphis TN USA in October 2011 **Affective Information Processing** Jianhua Tao,Tieniu Tan,2008-12-02 Affective information processing assigns computers the human like capabilities of observation interpretation and generation of affect features It is an important topic for harmonious human computer interaction by increasing the quality of human computer communication and improving the intelligence of the computer Discussing state of art of the research in affective information processing this book summarises key technologies researched such as facial expression recognition face animation emotional speech synthesis intelligent agent and virtual reality The detailed discussion covers a wide range of topics including hot topics which look to challenge and improve current research work Written to provide an opportunity for scientists engineers and graduate students to learn problems solutions and technologies in the topic area this book will provide insight and prove a valuable reference tool *Affective Computing and Interaction: Psychological, Cognitive and Neuroscientific Perspectives* Gökay, Didem,Yıldırım,

Gølsen, 2010-10-31 Since interactions may occur between animals humans or computational agents an interdisciplinary approach which investigates foundations of affective communication in a variety of platforms is indispensable In the field of affective computing a collection of research merging decades of research on emotions in psychology cognition and neuroscience will inspire creative future research projects and contribute to the prosperity of this emerging field Affective Computing and Interaction Psychological Cognitive and Neuroscientific Perspectives examines the current state and the future prospects of affect in computing within the context of interactions Uniting several aspects of affective interactions and topics in affective computing this reference reviews basic foundations of emotions furthers an understanding of the contribution of affect to our lives and concludes by revealing current trends and promising technologies for reducing the emotional gap between humans and machines all within the context of interactions

Emotional Machines

Catrin Misselhorn, Tom Poljanšek, Tobias Störzinger, Maike Klein, 2023-09-01 Can machines simulate express or even have emotions Is it a good to build such machines How do humans react emotionally to them and how should such devices be treated from a moral point of view This volume addresses these and related questions by bringing together perspectives from affective computing and emotional human machine interaction combining technological approaches with those from the humanities and social sciences It thus relates disciplines such as philosophy computer science technology psychology sociology design and art The volume offers readers interested in the phenomenon of emotional machines new perspectives from a variety of disciplines and addresses fundamental questions that will become pressing in the foreseeable future as emotional machines increasingly populate our everyday lives

Affect and Emotion in Human-Computer Interaction

Annotation
Affect and emotion play an important role in our everyday lives They are present whatever we do wherever we are and wherever we go without us being aware of them for much of the time When it comes to interaction be it with humans technology or humans via technology we suddenly become more aware of emotion either by seeing the other's emotional expression or by not getting an emotional response while anticipating one Given this it seems only sensible to explore affect and emotion in human computer interaction to investigate the underlying principles to study the role they play to develop methods to quantify them and to finally build applications that make use of them This is the research field for which over ten years ago Rosalind Picard coined the phrase affective computing The present book provides an account of the latest work on a variety of aspects related to affect and emotion in human technology interaction It covers theoretical issues user experience and design aspects as well as sensing issues and reports on a number of affective applications that have been developed in recent years

A Blueprint for Affective Computing

Klaus R. Scherer, Tanja Bänziger, Etienne Roesch, 2010-09-23 Affective computing is a branch of computing concerned with the theory and construction of machines which can detect respond to and simulate human emotional states This book presents an interdisciplinary exploration of this rapidly expanding field aimed at those in psychology computational neuroscience computer science and AI

Affect and

Emotion in Human-Computer Interaction Christian Peter, Russell Beale, 2009-08-29 Affect and emotion play an important role in our everyday lives. They are present whatever we do wherever we are and wherever we go without us being aware of them for much of the time. When it comes to interaction be it with humans technology or humans via technology we suddenly become more aware of emotion either by seeing the other's emotional expression or by not getting an emotional response while anticipating one. Given this it seems only sensible to explore affect and emotion in human computer interaction to investigate the underlying principles to study the role they play to develop methods to quantify them and to finally build applications that make use of them. This is the research field for which over ten years ago Rosalind Picard coined the phrase affective computing. The present book provides an account of the latest work on a variety of aspects related to affect and emotion in human technology interaction. It covers theoretical issues user experience and design aspects as well as sensing issues and reports on a number of affective applications that have been developed in recent years.

Multimodal Affective Computing: Affective Information Representation, Modelling, and Analysis Gyanendra K. Verma, 2023-03-21 Affective computing is an emerging field situated at the intersection of artificial intelligence and behavioral science. Affective computing refers to studying and developing systems that recognize, interpret, process and simulate human emotions. It has recently seen significant advances from exploratory studies to real world applications. Multimodal Affective Computing offers readers a concise overview of the state of the art and emerging themes in affective computing including a comprehensive review of the existing approaches in applied affective computing systems and social signal processing. It covers affective facial expression and recognition, affective body expression and recognition, affective speech processing, affective text and dialogue processing, recognizing affect using physiological measures, computational models of emotion and theoretical foundations and affective sound and music processing. This book identifies future directions for the field and summarizes a set of guidelines for developing next generation affective computing systems that are effective, safe and human centered. The book is an informative resource for academicians, professionals, researchers and students at engineering and medical institutions working in the areas of applied affective computing, sentiment analysis and emotion recognition.

Affective Computing and Intelligent Interaction Sidney D'Mello, Arthur Graesser, Bjoern Schuller, Jean-Claude Martin, 2011-10-18 The two volume set LNCS 6974 and LNCS 6975 constitutes the refereed proceedings of the Fourth International Conference on Affective Computing and Intelligent Interaction ACII 2011 held in Memphis TN USA in October 2011. The 135 papers in this two volume set presented together with 3 invited talks were carefully reviewed and selected from 196 submissions. The papers are organized in topical sections on recognition and synthesis of human affect, affect sensitive applications, methodological issues in affective computing, affective and social robotics, affective and behavioral interfaces, relevant insights from psychology, affective databases, Evaluation and annotation tools.

Affective Computing and Intelligent Interaction Jia Luo, 2012-01-25 2012 International Conference on Affective Computing and Intelligent Interaction ICACII

2012 was the most comprehensive conference focused on the various aspects of advances in Affective Computing and Intelligent Interaction. The conference provided a rare opportunity to bring together worldwide academic researchers and practitioners for exchanging the latest developments and applications in this field such as Intelligent Computing, Affective Computing, Machine Learning, Business Intelligence, and HCI. This volume is a collection of 119 papers selected from 410 submissions from universities and industries all over the world based on their quality and relevancy to the conference. All of the papers have been peer reviewed by selected experts.

Affective Computing and Intelligent Interaction Ana Paiva, 2007-08-30. This book constitutes the refereed proceedings of the Second International Conference on Affective Computing and Intelligent Interaction (ACII 2007) held in Lisbon, Portugal in September 2007. The 57 revised full papers and 4 revised short papers presented together with the extended abstracts of 33 poster papers were carefully reviewed and selected from 151 submissions. The papers are organized in topical sections on affective facial expression and recognition, affective body expression and recognition, affective speech processing, affective text and dialogue processing, recognizing affect using physiological measures, computational models of emotion, and theoretical foundations, affective databases, annotations, tools and languages, affective sound and music processing, affective interactions, systems and applications, as well as evaluating affective systems.

Emotions and Affect in Human Factors and Human-Computer Interaction Myounghoon Jeon, 2017-04-05. Emotions and Affect in Human Factors and Human Computer Interaction is a complete guide for conducting affect related research and design projects in H F and HCI domains. Introducing necessary concepts, methods, approaches, and applications, the book highlights how critical emotions and affect are to everyday life and interaction with cognitive artifacts. The text covers the basis of neural mechanisms of affective phenomena as well as representative approaches to Affective Computing, Kansei Engineering, Hedonomics, and Emotional Design. The methodologies section includes affect induction techniques, measurement techniques, detection and recognition techniques, and regulation models and strategies. The application chapters discuss various H F and HCI domains, product design, human-robot interaction, behavioral health, and game design and transportation. Engineers and designers can learn and apply psychological theories and mechanisms to account for their affect related research and can develop their own domain specific theory. The approach outlined in this handbook works to close the existing gap between the traditional affect research and the emerging field of affective design and affective computing. Provides a theoretical background of affective sciences. Demonstrates diverse affect induction methods in actual research settings. Describes sensing technologies such as brain-computer interfaces, facial expression detection, and more. Covers emotion modeling and its application to regulation processes. Includes case studies and applied examples in a variety of H F and HCI application areas. Addresses emerging interdisciplinary areas including Positive Technology, Subliminal Perception, Physiological Computing, and Aesthetic Computing.

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