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Social Robotics Oct 27 2019 This book constitutes the refereed proceedings of the 13th International Conference on Social Robotics, ICSR 2021, held in Singapore, Singapore, in November 2021. The conference was held as a hybrid event. The 64 full papers and 15 short papers presented were carefully reviewed and selected from 114 submissions. The conference presents topics on humans and intelligent robots and on the integration of robots into the fabric of our society. The theme of the 2021 edition was "Robotics in our everyday lives", emphasizing on the increasing importance of robotics in human daily living.

Emotion and Stress Recognition Related Sensors and Machine Learning Technologies Aug 06 2020 This book includes impactful chapters which present scientific concepts, frameworks, architectures and ideas on sensing technologies and machine learning techniques. These are relevant in tackling the following challenges: (i) the field readiness and use of intrusive sensor systems and devices for capturing biosignals, including EEG sensor systems, ECG sensor systems and electrodermal activity sensor systems; (ii) the quality assessment and management of sensor data; (iii) data preprocessing, noise filtering and calibration concepts for biosignals; (iv) the field readiness and use of nonintrusive sensor technologies, including visual sensors, acoustic sensors, vibration sensors and

piezoelectric sensors; (v) emotion recognition using mobile phones and smartwatches; (vi) body area sensor networks for emotion and stress studies; (vii) the use of experimental datasets in emotion recognition, including dataset generation principles and concepts, quality insurance and emotion elicitation material and concepts; (viii) machine learning techniques for robust emotion recognition, including graphical models, neural network methods, deep learning methods, statistical learning and multivariate empirical mode decomposition; (ix) subject-independent emotion and stress recognition concepts and systems, including facial expression-based systems, speech-based systems, EEG-based systems, ECG-based systems, electrodermal activity-based systems, multimodal recognition systems and sensor fusion concepts and (x) emotion and stress estimation and forecasting from a nonlinear dynamical system perspective. This book, emerging from the Special Issue of the Sensors journal on “Emotion and Stress Recognition Related Sensors and Machine Learning Technologies” emerges as a result of the crucial need for massive deployment of intelligent sociotechnical systems. Such technologies are being applied in assistive systems in different domains and parts of the world to address challenges that could not be addressed without the advances made in these technologies.

Descartes' Error Nov 08 2020 Since Descartes famously proclaimed, "I think, therefore I am," science has often overlooked emotions as the source of a person’s true being. Even modern neuroscience has tended, until recently, to concentrate on the cognitive aspects of brain function, disregarding emotions. This attitude began to change with the publication of Descartes’ Error in 1995. Antonio Damasio—"one of the world’s leading neurologists" (The New York Times)—challenged traditional ideas about the connection

between emotions and rationality. In this wondrously engaging book, Damasio takes the reader on a journey of scientific discovery through a series of case studies, demonstrating what many of us have long suspected: emotions are not a luxury, they are essential to rational thinking and to normal social behavior. Apr 01 2020

The Sentient Machine Nov 28 2019 Explores universal questions about humanity's capacity for living and thriving in the coming age of sentient machines and AI, examining debates from opposing perspectives while discussing emerging intellectual diversity and its potential role in enabling a positive life.

The Oxford Handbook of Emotional Development Mar 01 2020 Emotional Development is a topic that embraces a range of disciplines, including, psychology, neuroscience, sociology, primatology, philosophy, history, cognitive science, computer science, and education. The Oxford Handbook of Emotional Development is the first volume of its kind to include such a multidisciplinary group of experts to consider this topic, and as such, provides perhaps the most complete examination yet of how emotions develop and manifest themselves neuronally, intra- and interpersonally, across different cultures and species, and over time. The volume is separated into five themes: macro and micro underpinnings; communication and understanding; interactive contexts; socialization and learning; and morality and prosocial behaviour. Each section includes contributions from researchers in at least three disciplines, resulting in a volume that is destined to provoke the interested reader into either purposively or accidentally discovering emotional development from novel and stimulating perspectives. The chapters are written to be concise in their overview and accessible to the researcher or intellectually curious person alike. The reader can

enjoy state of the art critical analysis of emotional development from different viewpoints, which, whether dipped into casually or read as a whole, will provide the best view of not only what we know today about emotional development, but also where the future study of emotional development lies. The Oxford Handbook of Emotional Development is an original and important contribution to the literature in psychology and the affective sciences.

Transcend Jul 05 2020 In Transcend, famed futurist Ray Kurzweil and his coauthor Terry Grossman, MD, present a cutting edge, accessible program based on the vanguard in nutrition and science. They've distilled thousands of scientific studies to make the case that new developments in medicine and technology will allow us to radically extend our life expectancies and slow the aging process. Transcend gives you the practical tools you need to live long enough (and remain healthy long enough) to take full advantage of the biotech and nanotech advances that have already begun and will continue to occur at an accelerating pace during the years ahead. To help you remember the nine key components of the program, Ray and Terry have arranged them into a mnemonic: Talk with your doctor, Relaxation, Assessment, Nutrition, Supplements, Calorie reduction, Exercise, New technologies, Detoxification. This easy-to-follow program will help you transcend the boundaries of your genetic legacy and live long enough to live forever.

The Turing Option Nov 20 2021 Turing Option is written by Harry Harrison who is also the author of Deathworld, Make Room! Make Room! (filmed as Soylent Green), the popular Stainless Steel Rat books, and many other famous works of SF. At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied.

Handbook of Emotions, Third Edition Jan 11 2021 Widely

regarded as the standard reference in the field, this handbook comprehensively examines all aspects of emotion and its role in human behavior. The editors and contributors are foremost authorities who describe major theories, findings, methods, and applications. The volume addresses the interface of emotional processes with biology, child development, social behavior, personality, cognition, and physical and mental health. Also presented are state-of-the-science perspectives on fear, anger, shame, disgust, positive emotions, sadness, and other distinct emotions. Illustrations include seven color plates.

Emotion and the Structure of Narrative Film Jul 29 2022 First Published in 1995. Routledge is an imprint of Taylor & Francis, an informa company.

The Second Media Age Dec 30 2019 This book examines the implications of new communication technologies in the light of the most recent work in social and cultural theory and argues that new developments in electronic media, such as the Internet and Virtual Reality, justify the designation of a "second media age".

The Emotion Machine Jan 03 2023 A leading contributor to artificial intelligence offers insight into the numerous ways in which the mind works to demonstrate how emotions and feelings are just different ways of thinking, in an account that poses controversial ideas about the potential for designing machines that are capable of thinking like humans. By the author of The Society of Mind. Reprint. 40,000 first printing.

Emotional Design Dec 10 2020 The author of The Design of Everyday Things links human emotions and perceptions to how we relate to ordinary objects as he explains why attractive things really do work better. 40,000 first printing.

Biomedical Engineering Systems and Technologies Feb 21 2022 This book contains the best papers of the Second International

Joint Conference on Biomedical Engineering Systems and Technologies (BIOSTEC 2009), organized by the Institute for Systems and Technologies of Information Control and Communi- tion (INSTICC), technically co-sponsored by the IEEE Engineering in Medicine and Biology Society (EMB), IEEE Circuits and Systems Society (CAS) and the Workflow Management Coalition (WfMC), in cooperation with AAAI and ACM SIGART. The purpose of the International Joint Conference on Biomedical Engineering S- tems and Technologies is to bring together researchers and practitioners, including engineers, biologists, health professionals and informatics/computer scientists, int- ested in both theoretical advances and applications of information systems, artificial intelligence, signal processing, electronics and other engineering tools in knowledge areas related to biology and medicine. BIOSTEC is composed of three co-located conferences; each specializes in one of the aforementioned main knowledge areas, namely: • BIODEVICES (International Conference on Biomedical Electronics and - vices) focuses on aspects related to electronics and mechanical engineering, - pecially equipment and materials inspired from biological systems and/or - dressing biological requirements. Monitoring devices, instrumentation sensors and systems, biorobotics, micro-nanotechnologies and biomaterials are some of the technologies addressed at this conference.

Animals, Machines, and AI Aug 30 2022 Sentient animals, machines, and robots abound in German literature and culture, but there has been surprisingly limited scholarship on non-human life forms in German studies. This volume extends interdisciplinary research in emotion studies to examine non-humans and the affective relationships between humans and non-humans in modern German cultural history. In recent years,

fascination with emotions, developments in robotics, and the burgeoning of animal studies in and beyond the academy have given rise to questions about the nature of humanity. Using sources from the life sciences, literature, visual art, poetry, philosophy, and photography, this collection interrogates not animal or machine emotions per se, but rather uses animals and machines as lenses through which to investigate human emotions and the affective entanglements between humans and non-humans. The COVID-19 pandemic made us more keenly aware of the importance of both animals and new technologies in our daily lives, and this volume ultimately sheds light on the centrality of non-humans in the human emotional world and the possibilities that relationships with non-humans offer for enriching that world.

Chaucer's Losers, Nintendo's Children, and Other Forays in Queer Ludonarratology Aug 25 2019 Tison Pugh examines the intersection of narratology, ludology, and queer studies, pointing to the ways in which the blurred boundaries between game and narrative provide both a textual and a metatextual space of queer narrative potential. By focusing on these three distinct yet complementary areas, Pugh shifts understandings of the way their play, pleasure, and narrative potential are interlinked. Through illustrative readings of an eclectic collection of cultural artifacts—from Chaucer's Canterbury Tales to Nintendo's Legend of Zelda franchise, from Edward Albee's dramatic masterpiece Who's Afraid of Virginia Woolf? to J. K. Rowling's Harry Potter fantasy novels—Pugh offers perspectives of blissful ludonarratology, sadomasochistic ludonarratology, the queerness of rules, the queerness of godgames, and the queerness of children's questing video games. Collectively, these analyses present a range of interpretive strategies for uncovering the disruptive potential of gaming texts and textual

games while demonstrating the wide applicability of queer ludonarratology throughout the humanities.

Having a Good Cry Oct 20 2021 Robyn R. Warhol's goal is to investigate the effects of readers' emotional responses to formulaic fiction of the nineteenth and twentieth centuries on gendered subjectivity. She argues that modern literary and cultural studies have ignored nonsexual affectivity in their inquiries. The book elaborates on Warhol's theory of affect and then focuses on sentimental stories, marriage plots, serialized novels, and soap operas as distinct genres producing specific feelings among fans. Popular narrative forms use formulas to bring up familiar patterns of feelings in the audiences who love them. This book looks at the patterns of feelings that some nineteenth- and twentieth-century popular genres evoke, and asks how those patterns are related to gender. Soap operas and sentimentalism are generally derided as "effeminate" forms because their emotional range is seen as hyperfeminine. Having a Good Cry presents a celebration of effeminate feelings and works toward promoting more flexible, less pejorative concepts of gender. Using a psychophysiological rather than a psychoanalytic approach to reading and emotion, Warhol seeks to make readers more conscious of what is happening to the gendered body when we read.

Small Habits, Big Changes Apr 25 2022 Harness the power of tiny habits to revolutionize your life—in areas from work to relationships to housecleaning to money. You decide to try something new. You do it a second time. Then again. And again. Eventually you’re doing it without thought. That’s how habits form. Habits start as conscious actions and then transform into constant behaviors. Yet they touch every aspect of your life and happiness—which is precisely why they are so powerful. Unconscious habits are worth examining, so you can understand

their effects and, in some cases, change them. Packed with helpful advice and effective techniques, this book makes changing your habits simple and fun. It focuses on making tiny changes that will create long-lasting improvements in your life, and empowers you with information on: • Sleep, Diet and Exercise • Habit Loops and Willpower • The Power of Nudges • Motivation Tools • Stress and Relaxation • Systems and Goals, and more

Girl Decoded May 27 2022 In a captivating memoir, an Egyptian American visionary and scientist provides an intimate view of her personal transformation as she follows her calling—to humanize our technology and how we connect with one another. LONGLISTED FOR THE PORCHLIGHT BUSINESS BOOK AWARD • "A vivid coming-of-age story and a call to each of us to be more mindful and compassionate when we interact online."—Arianna Huffington NAMED ONE OF THE BEST BOOKS OF THE YEAR BY PARADE Rana el Kaliouby is a rarity in both the tech world and her native Middle East: a Muslim woman in charge in a field that is still overwhelmingly white and male. Growing up in Egypt and Kuwait, el Kaliouby was raised by a strict father who valued tradition—yet also had high expectations for his daughters—and a mother who was one of the first female computer programmers in the Middle East. Even before el Kaliouby broke ground as a scientist, she broke the rules of what it meant to be an obedient daughter and, later, an obedient wife to pursue her own daring dream. After earning her PhD at Cambridge, el Kaliouby, now the divorced mother of two, moved to America to pursue her mission to humanize technology before it dehumanizes us. The majority of our communication is conveyed through nonverbal cues: facial expressions, tone of voice, body language. But that communication is lost when we interact with others through our

smartphones and devices. The result is an emotion-blind digital universe that impairs the very intelligence and capabilities—including empathy—that distinguish human beings from our machines. To combat our fundamental loss of emotional intelligence online, she cofounded Affectiva, the pioneer in the new field of Emotion AI, allowing our technology to understand humans the way we understand one another. Girl Decoded chronicles el Kaliouby's journey from being a "nice Egyptian girl" to becoming a woman, carving her own path as she revolutionizes technology. But decoding herself—learning to express and act on her own emotions—would prove to be the biggest challenge of all.

Introduction to EEG- and Speech-Based Emotion Recognition

Dec 22 2021 Introduction to EEG- and Speech-Based Emotion Recognition Methods examines the background, methods, and utility of using electroencephalograms (EEGs) to detect and recognize different emotions. By incorporating these methods in brain-computer interface (BCI), we can achieve more natural, efficient communication between humans and computers. This book discusses how emotional states can be recognized in EEG images, and how this is useful for BCI applications. EEG and speech processing methods are explored, as are the technological basics of how to operate and record EEGs. Finally, the authors include information on EEG-based emotion recognition, classification, and a proposed EEG/speech fusion method for how to most accurately detect emotional states in EEG recordings. Provides detailed insight on the science of emotion and the brain signals underlying this phenomenon Examines emotions as a multimodal entity, utilizing a bimodal emotion recognition system of EEG and speech data Details the implementation of techniques used for acquiring as well as analyzing EEG and speech signals for emotion recognition

Emotion Pictures Jul 17 2021 This book investigates a group of exceptional films that single-mindedly consider one particular emotion – be it pity, lust, grief, or anxiety – to examine cinematic emotion in depth. Drawing on philosophical and psychological approaches, Fischer's unique analysis offers unparalleled case studies for comprehending emotion in the movies. The book provides the reader with an opportunity to contemplate what notion of a particular emotion is advanced onscreen; to describe how the unique tools and aesthetics of cinema are utilized to do so; to place such representations in dialogue with film theory as well as philosophical and psychological commentary; and to illustrate the important dichotomy between filmic portrayals and audience response. Beyond film and media scholars and students, this book will have resonance for academics and practitioners in several fields of psychology, including social work, psychiatry, and therapy.
Feeling Mediated Apr 13 2021 New technologies, whether text message or telegraph, inevitably raise questions about emotion. New forms of communication bring with them both fear and hope, on one hand allowing us deeper emotional connections and the ability to forge global communities, while on the other prompting anxieties about isolation and over-stimulation. Feeling Mediated investigates the larger context of such concerns, considering both how media technologies intersect with our emotional lives and how our ideas about these intersections influence how we think about and experience emotion and technology themselves. Drawing on extensive archival research, Brenton J. Malin explores the historical roots of much of our recent understanding of mediated feelings, showing how earlier ideas about the telegraph, phonograph, radio, motion pictures, and other once-new technologies continue to inform our contemporary thinking. With insightful

analysis, Feeling Mediated explores a series of fascinating arguments about technology and emotion that became especially heated during the early 20th century. These debates, which carried forward and transformed earlier discussions of technology and emotion, culminated in a set of ideas that became institutionalized in the structures of American media production, advertising, social research, and policy, leaving a lasting impact on our everyday lives.

Emotionally Intelligent Design Sep 06 2020 As technology becomes deeply integrated into every aspect of our lives, we've begun to expect more emotionally intelligent interactions. But smartphones don't know if we're having a bad day, and cars couldn't care less about compassion. Technology is developing more IQ, but it still lacks EQ. In this book, Pamela Pavliscak—design researcher and advisor to Fortune 500 companies—explores new research about emotion, new technology that engages emotion, and new emotional design practices. Drawing on her own research and the latest thinking in psychology, neuroscience, and behavioral economics, Pamela shows you how design can help promote emotional well-being. You'll learn: How design has transformed emotion and how tech is transforming it again New principles for merging emotional intelligence and design thinking How to use a relationship model for framing product interactions and personality Methods for blending well-being interventions with design patterns How emotional resonance can guide designers toward ethical futures Implications of emotionally intelligent technology as it scales from micro- to mega-emotional spheres

The Emotion Machine Nov 01 2022 In this mind-expanding book, scientific pioneer Marvin Minsky continues his groundbreaking research, offering a fascinating new model for how our minds work. He argues persuasively that emotions,

intuitions, and feelings are not distinct things, but different ways of thinking. By examining these different forms of mind activity, Minsky says, we can explain why our thought sometimes takes the form of carefully reasoned analysis and at other times turns to emotion. He shows how our minds progress from simple, instinctive kinds of thought to more complex forms, such as consciousness or self-awareness. And he argues that because we tend to see our thinking as fragmented, we fail to appreciate what powerful thinkers we really are. Indeed, says Minsky, if thinking can be understood as the step-by-step process that it is, then we can build machines -- artificial intelligences -- that not only can assist with our thinking by thinking as we do but have the potential to be as conscious as we are. Eloquently written, The Emotion Machine is an intriguing look into a future where more powerful artificial intelligences await.

Film Structure and the Emotion System Mar 25 2022 Sample Text

AI and Human Thought and Emotion May 15 2021 The field of artificial intelligence (AI) has grown dramatically in recent decades from niche expert systems to the current myriad of deep machine learning applications that include personal assistants, natural-language interfaces, and medical, financial, and traffic management systems. This boom in AI engineering masks the fact that all current AI systems are based on two fundamental ideas: mathematics (logic and statistics, from the 19th century), and a grossly simplified understanding of biology (mainly neurons, as understood in 1943). This book explores other fundamental ideas that have the potential to make AI more anthropomorphic. Most books on AI are technical and do not consider the humanities. Most books in the humanities treat technology in a similar manner. AI and Human Thought and Emotion, however is about AI, how academics, researchers,

scientists, and practitioners came to think about AI the way they do, and how they can think about it afresh with a humanities-based perspective. The book walks a middle line to share insights between the humanities and technology. It starts with philosophy and the history of ideas and goes all the way to usable algorithms. Central to this work are the concepts of introspection, which is how consciousness is viewed, and consciousness, which is accessible to humans as they reflect on their own experience. The main argument of this book is that AI based on introspection and emotion can produce more human-like AI. To discover the connections among emotion, introspection, and AI, the book travels far from technology into the humanities and then returns with concrete examples of new algorithms. At times philosophical, historical, and technical, this exploration of human emotion and thinking poses questions and provides answers about the future of AI.

Emotions, Technology, and Design Jun 03 2020 Emotional design explicitly addresses the emotional relationship between the objects and the subjects of design—in this book, the objects are technologies, and the subjects are technology users. The first section delves into the philosophy and theory of emotional design to provide a foundation for the rest of the book, which goes on to discuss emotional design principles, the design and use of emoticons, and then intelligent agents in a variety of settings. A conclusion chapter covers future research and directions. Emotions, Technology, and Design provides a thorough look at how technology design affects emotions and how to use that understanding to in practical applications. Discusses the role of culture, trust, and identity in empathetic technology Presents a framework for using sound to elicit positive emotional responses Details the emotional use of color in design Explores the use of emoticons, earcons, and tactons

Addresses the emotional design specific to agent-based environments

Inventive Minds Aug 18 2021 Six essays by artificial intelligence pioneer Marvin Minsky on how education can foster inventiveness, paired with commentary by Minsky's former colleagues and students. Marvin Minsky was a pioneering researcher in artificial intelligence whose work led to both theoretical and practical advances. His work was motivated not only by technological advancement but also by the desire to understand the workings of our own minds. Minsky's insights about the mind provide fresh perspectives on education and how children learn. This book collects for the first time six essays by Minsky on children, learning, and the potential of computers in school to enrich children's development. In these essays Minsky discusses the shortcomings of conventional education (particularly in mathematics) and considers alternative approaches; reflects on the role of mentors; describes higher-level strategies for thinking across domains; and suggests projects for children to pursue. Each essay is paired with commentary by one of Minsky's former colleagues or students, which identifies Minsky's key ideas and connects his writings to current research. Minsky once observed that in traditional teaching, "instead of promoting inventiveness, we focus on preventing mistakes." These essays offer Minsky's unique insights into how education can foster inventiveness. Commentary by Hal Abelson, Walter Bender, Alan Kay, Margaret Minsky, Brian Silverman, Gary Stager, Mike Travers, Patrick Henry Winston

Heart of the Machine Sep 30 2022 For Readers of Ray Kurzweil and Michio Kaku, a New Look at the Cutting Edge of Artificial Intelligence Imagine a robotic stuffed animal that can read and respond to a child's emotional state, a commercial that

can recognize and change based on a customer's facial expression, or a company that can actually create feelings as though a person were experiencing them naturally. Heart of the Machine explores the next giant step in the relationship between humans and technology: the ability of computers to recognize, respond to, and even replicate emotions. Computers have long been integral to our lives, and their advances continue at an exponential rate. Many believe that artificial intelligence equal or superior to human intelligence will happen in the not-too-distance future; some even think machine consciousness will follow. Futurist Richard Yonck argues that emotion, the first, most basic, and most natural form of communication, is at the heart of how we will soon work with and use computers. Instilling emotions into computers is the next leap in our centuries-old obsession with creating machines that replicate humans. But for every benefit this progress may bring to our lives, there is a possible pitfall. Emotion recognition could lead to advanced surveillance, and the same technology that can manipulate our feelings could become a method of mass control. And, as shown in movies like Her and Ex Machina, our society already holds a deep-seated anxiety about what might happen if machines could actually feel and break free from our control. Heart of the Machine is an exploration of the new and inevitable ways in which mankind and technology will interact. The paperback edition has a new foreword by Rana el Kaliouby, PhD, a pioneer in artificial emotional intelligence, as well as the cofounder and CEO of Affectiva, the acclaimed AI startup spun off from the MIT Media Lab.

Foundations of Augmented Cognition Oct 08 2020 This book constitutes the refereed proceedings of the 5th International Conference on Augmented Cognition, AC 2013, held as part of the 15th International Conference on Human-Computer

Interaction, HCII 2013, held in Las Vegas, USA in July 2013, jointly with 12 other thematically similar conferences. The total of 1666 papers and 303 posters presented at the HCII 2013 conferences was carefully reviewed and selected from 5210 submissions. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. 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 total of 81 contributions was carefully reviewed and selected for inclusion in the AC proceedings. The papers are organized in the following topical sections: augmented cognition in training and education; team cognition; brain activity measurement; understanding and modeling cognition; cognitive load, stress and fatigue; applications of augmented cognition. The Cognitive Structure of Emotions May 03 2020 More than 30 years after its initial publication, this new edition of The Cognitive Structure of Emotions refines and updates Ortony, Clore, and Collins's OCC model of emotions. Starting from a three-way classification of construals of the world—events, the attribution of responsibility for events, and objects—the authors propose a systematic account of emotion differentiation. Rejecting the oft-favored features of bodily feelings, emotion-related behaviors, and facial expressions as too intensity-dependent and insufficiently diagnostic, they provide a detailed analysis of emotion differentiation in terms of the cognitive underpinnings of emotion types. Using numerous examples, they explain how different variables influence emotion intensity, and show how emotions can be formalized for computational purposes. Now with a contributed chapter describing the OCC model's influence, this book will interest a wide audience in

cognitive, clinical, and social psychology, as well as in artificial intelligence and affective computing, and other cognitive science disciplines.

Handbook of Emotions Feb 09 2021 Widely regarded as the standard reference in the field, this handbook comprehensively examines all aspects of emotion and its role in human behavior. The editors and contributors are foremost authorities who describe major theories, findings, methods, and applications. The volume addresses the interface of emotional processes with biology, child development, social behavior, personality, cognition, and physical and mental health. Also presented are state-of-the-science perspectives on fear, anger, shame, disgust, positive emotions, sadness, and other distinct emotions. Illustrations include seven color plates.

Society Of Mind Jun 27 2022 An authority on artificial intelligence introduces a theory that explores the workings of the human mind and the mysteries of thought

Emotion and the Structure of Narrative Film Dec 02 2022 Introduced one hundred years ago, film has since become part of our lives. For the past century, however, the experience offered by fiction films has remained a mystery. Questions such as why adult viewers cry and shiver, and why they care at all about fictional characters -- while aware that they contemplate an entirely staged scene -- are still unresolved. In addition, it is unknown why spectators find some film experiences entertaining that have a clearly aversive nature outside the cinema. These and other questions make the psychological status of emotions allegedly induced by the fiction film highly problematic. Earlier attempts to answer these questions have been limited to a few genre studies. In recent years, film criticism and the theory of film structure have made use of psychoanalytic concepts which have proven insufficient in

accounting for the diversity of film induced affect. In contrast, academic psychology -- during the century of its existence -- has made extensive study of emotional responses provoked by viewing fiction film, but has taken the role of film as a natural stimulus completely for granted. The present volume bridges the gap between critical theories of film on the one hand, and recent psychological theory and research of human emotion on the other, in an attempt to explain the emotions provoked by fiction film. This book integrates insights on the narrative structure of fiction film including its themes, plot structure, and characters with recent knowledge on the cognitive processing of natural events, and narrative and person information. It develops a theoretical framework for systematically describing emotion in the film viewer. The question whether or not film produces genuine emotion is answered by comparing affect in the viewer with emotion in the real world experienced by persons witnessing events that have personal significance to them. Current understanding of the psychology of emotions provides the basis for identifying critical features of the fiction film that trigger the general emotion system. Individual emotions are classified according to their position in the affect structure of a film -- a larger system of emotions produced by one particular film as a whole. Along the way, a series of problematic issues is dealt with, notably the reality of the emotional stimulus in film, the identification of the viewer with protagonists on screen, and the necessity of the viewer's cooperation in arriving at a genuine emotion. Finally, it is argued that film-produced emotions are genuine emotions in response to an artificial stimulus. Film can be regarded as a fine-tuned machine for a continuous stream of emotions that are entertaining after all. The work paves the way for understanding and, in principle, predicting emotions in the film viewer using existing psychological instruments of

investigation. Dealing with the problems of film-induced affect and rendering them accessible to formal modeling and experimental method serves a wider interest of understanding aesthetic emotion -- the feelings that man-made products, and especially works of art, can evoke in the beholder.

Engineering Computational Emotion - A Reference Model for Emotion in Artificial Systems Jun 15 2021 This book provides a new perspective on emotion in artificial systems. It presents an insightful explanation of how emotion might emerge deep inside the systems, and emotional behaviour could be seen as a consequence of their internal management. The final approach attempts to account for a range of events associated with emotion, from functional and behavioural features to aspects related to the dynamics and the development of feeling. The book provides a theoretical foundation for engineering and designing computational emotion as a framework for developing future adaptive systems. It includes a painstaking analysis of the rationales for the features of the final approach, including aspects from the fields of Artificial Intelligence, Psychology, the Cognitive Sciences and Model-based Systems. Synthesizing knowledge from a variety of disciplines, it ultimately presents a model conceptualization following the perspectives of Engineering and the Cognitive Sciences.

Emotion-Oriented Systems Mar 13 2021 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.

Emotional AI Sep 18 2021 What happens when media technologies are able to interpret our feelings, emotions, moods, and intentions? In this cutting edge new book, Andrew McStay explores that very question and argues that these abilities result in a form of technological empathy. Offering a balanced and incisive overview of the issues raised by 'Emotional AI', this book: Provides a clear account of the social benefits and drawbacks of new media trends and technologies such as emoji, wearables and chatbots Demonstrates through empirical research how 'empathic media' have been developed and introduced both by start-ups and global tech corporations such as Facebook Helps readers understand the potential implications on everyday life and social relations through examples such as video-gaming, facial coding, virtual reality and cities Calls for a more critical approach to the rollout of emotional AI in public and private spheres Combining established theory with original analysis, this book will change the way students view, use and interact

with new technologies. It should be required reading for students and researchers in media, communications, the social sciences and beyond.

Emotion Recognition Sep 26 2019 A timely book containing foundations and current research directions on emotion recognition by facial expression, voice, gesture and biopotential signals This book provides a comprehensive examination of the research methodology of different modalities of emotion recognition. Key topics of discussion include facial expression, voice and biopotential signal-based emotion recognition. Special emphasis is given to feature selection, feature reduction, classifier design and multi-modal fusion to improve performance of emotion-classifiers. Written by several experts, the book includes several tools and techniques, including dynamic Bayesian networks, neural nets, hidden Markov model, rough sets, type-2 fuzzy sets, support vector machines and their applications in emotion recognition by different modalities. The book ends with a discussion on emotion recognition in automotive fields to determine stress and anger of the drivers, responsible for degradation of their performance and driving-ability. There is an increasing demand of emotion recognition in diverse fields, including psycho-therapy, bio-medicine and security in government, public and private agencies. The importance of emotion recognition has been given priority by industries including Hewlett Packard in the design and development of the next generation human-computer interface (HCI) systems. Emotion Recognition: A Pattern Analysis Approach would be of great interest to researchers, graduate students and practitioners, as the book Offers both foundations and advances on emotion recognition in a single volume Provides a thorough and insightful introduction to the subject by utilizing computational tools of diverse domains Inspires young

researchers to prepare themselves for their own research Demonstrates direction of future research through new technologies, such as Microsoft Kinect, EEG systems etc.
Emotion Recognition and Understanding for Emotional Human-Robot Interaction Systems Jan 29 2020 This book focuses on the key technologies and scientific problems involved in emotional robot systems, such as multimodal emotion recognition (i.e., facial expression/speech/gesture and their multimodal emotion recognition) and emotion intention understanding, and presents the design and application examples of emotional HRI systems. Aiming at the development needs of emotional robots and emotional human–robot interaction (HRI) systems, this book introduces basic concepts, system architecture, and system functions of affective computing and emotional robot systems. With the professionalism of this book, it serves as a useful reference for engineers in affective computing, and graduate students interested in emotion recognition and intention understanding. This book offers the latest approaches to this active research area. It provides readers with the state-of-the-art methods of multimodal emotion recognition, intention understanding, and application examples of emotional HRI systems.
Permission to Feel Jan 23 2022 The mental well-being of children and adults is shockingly poor. Marc Brackett, author of Permission to Feel, knows why. And he knows what we can do. "We have a crisis on our hands, and its victims are our children." Marc Brackett is a professor in Yale University's Child Study Center and founding director of the Yale Center for Emotional Intelligence. In his 25 years as an emotion scientist, he has developed a remarkably effective plan to improve the lives of children and adults – a blueprint for understanding our emotions and using them wisely so that they help, rather than hinder, our

success and well-being. The core of his approach is a legacy from his childhood, from an astute uncle who gave him permission to feel. He was the first adult who managed to see Marc, listen to him, and recognize the suffering, bullying, and abuse he'd endured. And that was the beginning of Marc's awareness that what he was going through was temporary. He wasn't alone, he wasn't stuck on a timeline, and he wasn't "wrong" to feel scared, isolated, and angry. Now, best of all, he could do something about it. In the decades since, Marc has led large research teams and raised tens of millions of dollars to investigate the roots of emotional well-being. His prescription for healthy children (and their parents, teachers, and schools) is a system called RULER, a high-impact and fast-effect approach to understanding and mastering emotions that has already transformed the thousands of schools that have adopted it. RULER has been proven to reduce stress and burnout, improve school climate, and enhance academic achievement. This book is the culmination of Marc's development of RULER and his way to share the strategies and skills with readers around the world. It is tested, and it works. This book combines rigor, science, passion and inspiration in equal parts. Too many children and adults are suffering; they are ashamed of their feelings and emotionally unskilled, but they don't have to be. Marc Brackett's life mission is to reverse this course, and this book can show you how.

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