

Affective Computing And The Impact Of Gender And Age

This book constitutes refereed proceedings of the COST 2102 International Training School on Cognitive Behavioural Systems held in Dresden, Germany, in February 2011. The 39 revised full papers presented were carefully reviewed and selected from various submissions. The volume presents new and original research results in the field of human-machine interaction inspired by cognitive behavioural human-human interaction features. The themes covered are on cognitive and computational social information processing, emotional and social believable Human-Computer Interaction (HCI) systems, behavioural and contextual analysis of interaction, embodiment, perception, linguistics, semantics and sentiment analysis in dialogues and interactions, algorithmic and computational issues for the automatic recognition and synthesis of emotional states.

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

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and prove a valuable reference tool.

From the virulence of fake news to the rise of psychographic profiling, emotion has become ascendant. The new frontier of capitalization is not outward, but inward—the inner life of affect and emotion, desire and disposition. This book lays that new reality out with a series of close case studies. A new set of technologies are emerging, from facial coding to affective computing, that attempt to render the emotional into the machine-readable. At the same time, social media and smart home devices are becoming empathic, attempting to draw out our affective participation and elicit our emotional expression. In these encounters with the medial and the technical, the emotional is remade. Combining a close analysis of contemporary technologies such as Affectiva, Facebook, and Alexa with critical media theory, *Logic of Feeling: Technology's Quest to Capitalize Emotion* examines how the quest to operationalize this inner life begins to reconfigure feeling itself.

Future technical systems will be companion systems, competent assistants that provide their functionality in a completely individualized way, adapting to a user's capabilities, preferences, requirements, and current needs, and taking into account both the emotional state and the situation of the individual user. This book presents the enabling technology for such systems. It introduces a variety of methods and techniques to implement an individualized, adaptive, flexible, and robust behavior for technical systems by means of cognitive processes, including perception, cognition, interaction, planning, and reasoning. The technological developments are complemented by empirical studies from psychological and neurobiological perspectives. "This book focuses on the integration of emotions into artificial environments such as computers and robotics"--Provided by publisher.

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This monograph integrates theoretical perspectives on affect and learning with recent research in affective computing with an emphasis on building new learning technologies. The "new perspectives" come from the intersection of several research themes: -?Basic research on emotion, cognition, and motivation applied to learning environments -?Pedagogical and motivational strategies that are sensitive to affective and cognitive processes -?Multimodal Human Computer Interfaces, with a focus on affect recognition and synthesis -?Recent advances in affect-sensitive Intelligent Tutoring Systems -?Novel methodologies to investigate affect and learning -?Neuroscience research on emotions and learning

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.

This volume presents a knowledge-based approach to concept-level sentiment analysis at the crossroads between affective computing, information extraction, and common-sense computing, which exploits both computer and social sciences to better interpret and process information on the Web. Concept-level sentiment analysis goes beyond a mere word-level analysis of text in order to enable a more efficient passage from (unstructured) textual information to (structured) machine-processable data, in potentially any domain. Readers will discover the following key novelties, that make this approach so unique and avant-garde, being reviewed and discussed:

- Sentic Computing's multi-

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disciplinary approach to sentiment analysis-evidenced by the concomitant use of AI, linguistics and psychology for knowledge representation and inference • Sentic Computing's shift from syntax to semantics-enabled by the adoption of the bag-of-concepts model instead of simply counting word co-occurrence frequencies in text • Sentic Computing's shift from statistics to linguistics-implemented by allowing sentiments to flow from concept to concept based on the dependency relation between clauses This volume is the first in the Series Socio-Affective Computing edited by Dr Amir Hussain and Dr Erik Cambria and will be of interest to researchers in the fields of socially intelligent, affective and multimodal human-machine interaction and systems. 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. This book proposes a framework for integrating neuroscience and cyberpsychology for the study of social, cognitive, and affective processes.

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Recent years have seen the rise of a remarkable partnership between the social and computational sciences on the phenomena of emotions. This book reports on the state-of-the-art in both social science theory and computational methods, and illustrates how these two fields, together, can both facilitate practical computer/robotic applications and illuminate human social processes.

These proceedings present the latest information on regulations and standards for medical and non-medical devices, including wearable robots for gait training and support, design of exoskeletons for the elderly, innovations in assistive robotics, and analysis of human-machine interactions taking into account ergonomic considerations. The rapid development of key mechatronics technologies in recent years has shown that human living standards have significantly improved, and the International Conference on Wearable Sensor and Robot was held in Hangzhou, China from October 16 to 18, 2015, to present research mainly focused on personal-care robots and medical devices. The aim of the conference was to bring together academics, researchers, engineers and students from across the world to discuss state-of-the-art technologies related to various aspects of wearable sensors and robots.

Artificial Intelligence is one of the most fascinating and unusual areas of academic study to have emerged this century. For some, AI is a true scientific discipline, that has made important and fundamental contributions to the use of computation for our understanding of nature and phenomena of the human mind; for others, AI is the black art of computer science. Artificial Intelligence Today provides a showcase for the field of AI as it stands today. The editors invited contributions both from traditional subfields of AI, such as theorem proving, as well as from subfields that have emerged more recently, such as agents, AI and the Internet, or

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synthetic actors. The papers themselves are a mixture of more specialized research papers and authoritative survey papers. The secondary purpose of this book is to celebrate Springer-Verlag's Lecture Notes in Artificial Intelligence series.

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, recognising 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.

This book constitutes the refereed proceedings of the 15th International Conference on Artificial Intelligence in Education, AIED 2011, held in Auckland, New Zealand in June/July 2011. The 49 revised full papers presented together with three invited talks and extended abstracts of poster presentations, young researchers contributions and interactive systems reports and workshop reports were carefully reviewed and selected from a total of 193 submissions. The papers report on technical advances in and cross-fertilization of approaches and ideas from the many topical areas that make up this highly interdisciplinary field of research and development including artificial intelligence, agent technology, computer science, cognitive and learning

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sciences, education, educational technology, game design, psychology, philosophy, sociology, anthropology and linguistics.

This book constitutes the refereed proceedings of the Second International Conference on Affective Computing and Intelligent Interaction, ACII 2007. 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.

Advances in modern sciences occur thanks to within-fields discoveries as well as confrontation of concepts and methods from separated, sometimes distant, domains of knowledge. For instance, the fields of psychology and psychopathology benefited from accumulated contributions from cognitive neurosciences, which, in turn, received insights from molecular chemistry, cellular biology, physics (neuroimaging), statistics and computer sciences (data processing), etc. From the results of these researches, one can argue that among the numerous cognitive phenomena supposedly involved in the emergence the human intelligence and organized behavior, some of them are specific to the social nature of our phylogenetic order. Scientific reductionism allowed to divide the social cognitive system into several components, i.e. emotion processing and regulation, mental state inference (theory of mind), agency, etc. New paradigms were progressively designed to investigate these processes within highly-controlled laboratory settings. Moreover, the related constructs were successful at better understanding

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psychopathological conditions such as autism and schizophrenia, with partial relationships with illness outcomes. Here, we would like to outline the parallel development of concepts in social neurosciences and in other domains such as computer science, affective computing, virtual reality development, and even hardware technologies. While several researchers in neurosciences pointed out the necessity to consider naturalistic social cognition (Zaki and Ochsner, *Ann N Y Acad Sci* 1167, 16-30, 2009), the second person perspective (Schilbach et al., *Behav Brain Sci* 36(4), 393-414, 2013) and reciprocity (de Bruin et al., *Front Hum Neurosci* 6, 151, 2012), both computer and software developments allowed more and more realistic real-time models of our environment and of virtual humans capable of some interaction with users. As noted at the very beginning of this editorial, a new convergence between scientific disciplines might occur from which it is tricky to predict the outcomes in terms of new concepts, methods and uses. Although this convergence is motivated by the intuition that it fits well ongoing societal changes (increasing social demands on computer technologies, augmenting funding), it comes with several difficulties for which the current *Frontiers in* topic strives to bring some positive answers, and to provide both theoretical arguments and experimental examples. The first issue is about concepts and vocabulary as the contributions described in the following are authored by neuroscientists, computer scientists, psychopathologists, etc. A special attention was given during the reviewing process to stay as close as possible

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to the publication standards in psychological and health sciences, and to avoid purely technical descriptions. The second problem concerns methods: more complex computerized interaction models results in unpredictable and poorly controlled experiments. In other words, the assets of naturalistic paradigms may be alleviated by the difficulty to match results between subjects, populations, conditions. Of course, this practical question is extremely important for investigating pathologies that are associated with profoundly divergent behavioral patterns. Some of the contributions of this topic provide description of strategies that allowed to solve these difficulties, at least partially. The last issue is about heterogeneity of the objectives of the researches presented here. While selection criteria focused on the use of innovative technologies to assess or improve social cognition, the fields of application of this approach were quite unexpected. In an attempt to organize the contributions, three directions of research can be identified: 1) how innovation in methods might improve understanding and assessment of social cognition disorders or pathology? 2) within the framework of cognitive behavioral psychotherapies (CBT), how should we consider the use of virtual reality or augmented reality? 3) which are the benefits of these techniques for investigating severe mental disorders (schizophrenia or autism) and performing cognitive training? The first challenging question is insightfully raised in the contribution of Timmermans and Schilbach (2014) giving orientations for investigating alterations of social interaction in psychiatric disorders by the use of dual

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interactive eye tracking with virtual anthropomorphic avatars. Joyal, Jacob and collaborators (2014) bring concurrent and construct validities of a newly developed set of virtual faces expressing six fundamental emotions. The relevance of virtual reality was exemplified with two contributions focusing on anxiety related phenomena. Jackson et al. (2015) describe a new environment allowing to investigate empathy for dynamic FACS-coded facial expressions including pain. Based on a systematic investigation of the impact of social stimuli modalities (visual, auditory), Ruch and collaborators are able to characterize the specificity of the interpretation of laughter in people with gelotophobia (2014). On the issue of social anxiety, Aymerich-Franch et al. (2014) presented two studies in which public speaking anxiety has been correlated with avatars' similarity of participants' self-representations. The second issue focuses on how advances in virtual reality may benefit to cognitive and behavioral therapies in psychiatry. These interventions share a common framework that articulates thoughts, feelings or emotions and behaviors and proposes gradual modification of each of these levels thanks to thought and schema analysis, stress reduction procedures, etc. They were observed to be somehow useful for the treatment of depression, stress disorders, phobias, and are gaining some authority in personality disorders and addictions. The main asset of new technologies is the possibility to control the characteristics of symptom-eliciting stimuli/situations, and more precisely the degree to which immersion is enforced. For example, Baus and Bouchard (2014)

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provide a review on the extension of virtual reality exposure-based therapy toward recently described augmented reality exposure-based therapy in individuals with phobias. Concerning substance dependence disorders, Hone-Blanchet et collaborators (2014) present another review on how virtual reality can be an asset for both therapy and craving assessment stressing out the possibilities to simulate social interactions associated with drug seeking behaviors and even peers' pressure to consume. The last issue this Frontiers' topic deals with encompasses the questions raised by social cognitive training or remediation in severe and chronic mental disorders (autistic disorders, schizophrenia). Here, therapies are based on drill and practice or strategy shaping procedures, and, most of the time, share an errorless learning of repeated cognitive challenges. Computerized methods were early proposed for that they do, effortlessly and with limited costs, repetitive stimulations. While, repetition was incompatible with realism in the social cognitive domain, recent advances provide both immersion and full control over stimuli. Georgescu and al. (2014) exhaustively reviews the use of virtual characters to assess and train non-verbal communication in high-functioning autism (HFA). Grynszpan and Nadel (2015) present an original eye-tracking method to reveal the link between gaze patterns and pragmatic abilities again in HFA. About schizophrenia, Oker and collaborators (2015) discuss and report some insights on how an affective and reactive virtual agents might be useful to assess and remediate several defects of social cognitive disorders.

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About assessment within virtual avatars on schizophrenia, Park et al., (2014) focused on effect of perceived intimacy on social decision making with schizophrenia patients. Regarding schizophrenia remediation, Peyroux and Franck (2014) presented a new method named RC2S which is a cognitive remediation program to improve social cognition in schizophrenia and related disorders. To conclude briefly, while it is largely acknowledged that social interaction can be studied as a topic of its own, all the contributions demonstrate the added value of expressive virtual agents and affective computing techniques for the experimentation. It also appears that the use of virtual reality is at the very beginning of a new scientific endeavor in cognitive sciences and medicine.

This book explores the underlying biology associated with the pathology of mental health disorders and the related nervous system. Fully revised for this third edition, each chapter has been updated to include the latest research, ideas and concepts in each field, and includes a new chapter on sleep. Integrating up-to-date pharmacological and genetic knowledge with an understanding of environmental factors that impact on human biology, *The Biological Basis of Mental Health* covers topics including brain development, neural communication, neurotransmitters and receptors, hormones and behaviour, genetic disorders, pharmacology, drug abuse, anxiety, schizophrenia, depression, epilepsy, subcortical degenerative diseases of the brain, dementia, developmental disorders, and sleep. Accessible and engaging, this is an essential text

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for mental health students, practitioners and educators. 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.

"This book focuses on the study and application of human computer interaction principles in the design of online education"--Provided by publisher.

This book is a printed edition of the Special Issue "Socio-Cognitive and Affective Computing" that was published in Applied Sciences

This volume contains the proceedings of the 1st International Conference on Affective Computing and

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

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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.

Esta enciclopedia presenta numerosas experiencias y discernimientos de profesionales de todo el mundo sobre discusiones y perspectivas de la la interacción hombre-computadoras

Why attractive things work better and other crucial insights into human-centered design Emotions are inseparable from how we humans think, choose, and act. In Emotional Design, cognitive scientist Don Norman shows how the principles of human psychology apply to the invention and design of new technologies and products. In The Design of Everyday Things, Norman made the definitive case for human-centered design, showing that good design demanded that the user's must take precedence over a designer's aesthetic if anything, from light switches to airplanes, was going to work as the user needed. In this book, he takes his thinking several steps farther, showing that successful design must incorporate not just what users need, but must address our minds by

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attending to our visceral reactions, to our behavioral choices, and to the stories we want the things in our lives to tell others about ourselves. Good human-centered design isn't just about making effective tools that are straightforward to use; it's about making affective tools that mesh well with our emotions and help us express our identities and support our social lives. From roller coasters to robots, sports cars to smart phones, attractive things work better. Whether designer or consumer, user or inventor, this book is the definitive guide to making Norman's insights work for you.

The Knowledge Solution. Stop Searching, Stand Out and Pay Off. The #1 ALL ENCOMPASSING Guide to Affective Computing. An Important Message for ANYONE who wants to learn about Affective Computing Quickly and Easily...

""Here's Your Chance To Skip The Struggle and Master Affective Computing, With the Least Amount of Effort, In 2 Days Or Less...""

Affective computing is the study and development of systems and devices that can recognize, interpret, process, and simulate human affects. It is an interdisciplinary field spanning computer sciences, psychology, and cognitive science. While the origins of the field may be traced as far back as to early philosophical enquiries into emotion, the more modern branch of computer science originated with Rosalind Picard's 1995 paper on affective computing. A motivation for the research is the ability to simulate empathy. The machine should interpret the emotional state of humans and adapt its behaviour to them, giving an appropriate response for those emotions. Get the edge, learn EVERYTHING you need to know about Affective Computing, and ace any discussion, proposal and implementation with the ultimate book - guaranteed to give you the education that you need, faster than you ever dreamed possible! The information in this book can show you how to be an expert in the field of Affective Computing. Are

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you looking to learn more about Affective Computing? You're about to discover the most spectacular gold mine of Affective Computing materials ever created, this book is a unique collection to help you become a master of Affective Computing. This book is your ultimate resource for Affective Computing. Here you will find the most up-to-date information, analysis, background and everything you need to know. In easy to read chapters, with extensive references and links to get you to know all there is to know about Affective Computing right away. A quick look inside: Affective computing, Portal: Artificial intelligence, Outline of artificial intelligence, List of artificial intelligence projects, List of programming languages for artificial intelligence, 20Q, ACROSS Project, Action selection, Admissible heuristic, Agent systems reference model, AgentSheets, AI box, AI-complete, Algorithmic probability, Allen (robot), And-or tree, Angel F, Anticipation (artificial intelligence), Any-angle path planning, Anytime algorithm, Applications of artificial intelligence, Artificial architecture, Artificial brain, Artificial consciousness, Artificial Imagination, Artificial intelligence, Semi Human Instinctive Artificial Intelligence, Artificial intelligence and law, Artificial intelligence marketing, Artificial Intelligence System, Artificial intelligence systems integration, Artificial intelligence, situated approach, Artificial psychology, ASR-complete, Attributional calculus, Autognostics, Automated Mathematician, Automated reasoning, Automatic waste container, Autonomic Computing, Autonomic Networking, Autonomous agent, Backward chaining, Bees algorithm, Belief-desire-intention model, Bio-inspired computing, Bipropagation, Blackboard system, Blackbox planning system, Border pairs method, CALO, Campus in Multidisciplinary Perception and Intelligence of Albacete 2006, User: Cengence/Cengence, Cerebellar Model Articulation Controller, Chatterbox Challenge, Chess as

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mental training, Cobweb (clustering), Cognitive Info-Communications (CogInfoCom), Cognitive philology, Cognitive robotics, Cognitive tutor, Collective intelligence, Commonsense reasoning, Competitions and prizes in artificial intelligence, Computational creativity...and Much, Much More! This book explains in-depth the real drivers and workings of Affective Computing. It reduces the risk of your technology, time and resources investment decisions by enabling you to compare your understanding of Affective Computing with the objectivity of experienced professionals - Grab your copy now, while you still can.

This book contains a selection of articles from The 2015 World Conference on Information Systems and Technologies (WorldCIST'15), held between the 1st and 3rd of April in Funchal, Madeira, Portugal, a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges of modern Information Systems and Technologies research, technological development and applications. The main topics covered are: Information and Knowledge Management; Organizational Models and Information Systems; Intelligent and Decision Support Systems; Big Data Analytics and Applications; Software Systems, Architectures, Applications and Tools; Multimedia Systems and Applications; Computer Networks, Mobility and Pervasive Systems; Human-Computer Interaction; Health Informatics; Information Technologies in Education; Information Technologies in Radio communications.

"To all who love the God with a 1000 names and respect science" In the last quarter century, the academic field of Science and Theology (Religion) has attracted scholars from a wide variety of disciplines. The question is, which disciplines are attracted and what do these disciplines have to contribute to the debate? In order to answer this question,

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the encyclopedia maps the (self)-identified disciplines and religious traditions that participate or might come to participate in the Science and Religion debate. This is done by letting each representative of a discipline and tradition answer specific chosen questions. They also need to identify the discipline in relation to the Science and Religion debate. Understandably representatives of several disciplines and traditions answered in the negative to this question. Nevertheless, they can still be important for the debate; indeed, scholars and scientists who work in the field of Science and Theology (Religion) may need knowledge beyond their own specific discipline. Therefore the encyclopedia also includes what are called general entries. Such entries may explain specific theories, methods, and topics. The general aim is to provide a starting point for new lines of inquiry. It is an invitation for fresh perspectives on the possibilities for engagement between and across sciences (again which includes the social and human sciences) and religions and theology. This encyclopedia is a comprehensive reference work for scholars interested in the topic of 'Science and Religion.' It covers the widest spectrum possible of academic disciplines and religious traditions worldwide, with the intent of laying bare similarities and differences that naturally emerge within and across disciplines and religions today. The A-Z format throughout affords easy and user-friendly access to relevant information. Additionally, a systematic question-answer format across all Sciences and Religions entries affords efficient identification of specific points of agreement, conflict, and disinterest across and between sciences and religions. The extensive cross-referencing between key words, phrases, and technical language used in the entries facilitates easy searches. We trust that all of the entries have something of value for any interested reader. Anne L.C. Runehov and Lluís Oviedo

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Have the types of risks that may impact Affective Computing been identified and analyzed? Who sets the Affective Computing standards? What about Affective Computing Analysis of results? What potential environmental factors impact the Affective Computing effort? Where do ideas that reach policy makers and planners as proposals for Affective Computing strengthening and reform actually originate? This exclusive Affective Computing self-assessment will make you the accepted Affective Computing domain assessor by revealing just what you need to know to be fluent and ready for any Affective Computing challenge. How do I reduce the effort in the Affective Computing work to be done to get problems solved? How can I ensure that plans of action include every Affective Computing task and that every Affective Computing outcome is in place? How will I save time investigating strategic and tactical options and ensuring Affective Computing costs are low? How can I deliver tailored Affective Computing advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Affective Computing essentials are covered, from every angle: the Affective Computing self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Affective Computing outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Affective Computing practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Affective Computing are maximized with professional results. Your purchase includes access details to the Affective Computing self-assessment dashboard download which gives you your dynamically prioritized

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projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book.

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.

This open access book was prepared as a Final Publication of the COST Action IC1303 “Algorithms, Architectures and Platforms for Enhanced Living Environments (AAPELE)”. The concept of Enhanced Living Environments (ELE) refers to the area of Ambient Assisted Living (AAL) that is more related with Information and Communication Technologies (ICT). Effective ELE solutions require appropriate ICT algorithms, architectures, platforms, and systems, having in view the advance of science and technology in this area and the development of new and innovative solutions that can provide improvements in the quality of life for people in their homes and can reduce the financial burden on the budgets of the healthcare providers. The aim of this book is to become a state-of-the-art reference, discussing progress made, as well as prompting future directions on theories, practices, standards, and strategies related to the ELE area. The book contains 12 chapters and can serve as a valuable reference for undergraduate students, post-graduate students, educators, faculty members, researchers, engineers, medical

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doctors, healthcare organizations, insurance companies, and research strategists working in this area.

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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The book aims to give an insight into the multifacetedness of changes the Internet – referred to here as the digital world – triggers in both theory and practice of marketing and management. The book has been divided into 5 subject areas, i.e. management, strategy, communications, brand, and consumer, all of which act as the main themes of subsequent chapters. A seminal collection of research methodology themes, this two-volume work provides a set of key scholarly developments related to robustness, allowing scholars to advance their knowledge of research methods used outside of their own immediate fields. With a focus on emerging methodologies within management, key areas of importance are dissected with chapters covering statistical modelling, new measurements, digital research, biometrics and neuroscience, the philosophy of research, computer modelling approaches and new mathematical theories, among others. A genuinely pioneering contribution to the advancement of research methods in business studies, *Innovative Research Methodologies in Management* presents an analytical and engaging discussion on each topic. By introducing new research agendas it aims to pave the way for increased application of innovative techniques, allowing the exploration of future research perspectives. Volume II explores a range of research methodologies including the Spatial Delphi and Spatial Shang, Virtual Reality, the Futures Polygon and Neuroscience research. 'Affective computing' is a branch of computing concerned with the theory and construction of machines which can detect, respond to, and simulate human emotional

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states. This book presents an interdisciplinary exploration of this rapidly expanding field, aimed at those in psychology, computational neuroscience, computer science, and AI.

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.

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

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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.

This comprehensive review of the neuropsychology of emotion and the underlying neural mechanisms, is divided into four sections: background and general techniques, theoretical perspectives, emotional disorders, and clinical implications.

Affective Computing and Interaction: Psychological, Cognitive and Neuroscientific Perspectives
Psychological, Cognitive and Neuroscientific Perspectives
IGI Global

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

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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.

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