

The Self Assessment Manikin And Heart Rate Responses To

Sleep and Affect: Assessment, Theory, and Clinical Implications synthesizes affective neuroscience research as it relates to sleep psychology and medicine. Evidence is provided that normal sleep plays an emotional regulatory role in healthy humans. The book investigates interactions of sleep with both negative and positive emotions, along with their clinical implications. Sleep research is discussed from a neurobiological, cognitive, and behavioral approach. Sleep and emotions are explored across the spectrum of mental health from normal mood and sleep to the pathological extremes. The book, additionally, offers researchers a guide to methods and research design for studying sleep and affect. This book will be of use to sleep researchers, affective neuroscientists, and clinical psychologists in order to better understand the impact of emotion on sleep as well as the effect of sleep on physical and mental well-being. Contains neurobiological, cognitive, and behavioral approaches Explains methods for examining sleep and affect Summarizes research on sleep and specific affect states Translates research for clinical use in treating disorders

This volume constitutes the proceedings of the 11th International Conference on Augmented Cognition, AC 2017, held as part of the International Conference on Human-Computer Interaction, HCII 2017, which took place in Vancouver, BC, Canada, in July 2017. HCII 2017 received a total of 4340 submissions, of which 1228 papers were accepted for publication after a careful reviewing process. The papers thoroughly cover the entire field of Human-Computer Interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The two volumes set of AC 2017 presents 81 papers which are organized in the following topical sections: electroencephalography and brain activity measurement, eye tracking in augmented cognition, physiological measuring and bio-sensing, machine learning in augmented cognition, cognitive load and performance, adaptive learning systems, brain-computer interfaces, human cognition and behavior in complex tasks and environments.

The four-volume set LNCS 9296-9299 constitutes the refereed proceedings of the 15th IFIP TC13 International Conference on Human-Computer Interaction, INTERACT 2015, held in Bamberg, Germany, in September 2015. The 41 papers included in the first volume are organized in topical sections on accessibility; accessible interfaces for blind people; accessible interfaces for older adults; affective HCI and emotions and motivational aspects; alternative input; alternative input devices for people with disabilities; interfaces for cognitive support; brain-computer interaction; cognitive factors.

The 12th issue of the *Transactions on Computational Science* journal, edited by Alexei Sourin and Olga Sourina, is devoted to the topic of cyberworlds. The 13 papers in the volume constitute revised and extended versions of a selection of contributions presented at CW 2010, the 20th International Conference on Cyberworlds, held in Singapore in October 2010. The selected papers span the areas of tangible interfaces, emotion recognition, haptic modeling, decision making under uncertainty, reliability measures, use of biometrics for avatar recognition, cybernavigation, multiuser virtual environments, spatial data sampling, web visualization, and interactive character animation system design.

Human-Computer Interaction - INTERACT 2015

Haptics: Science, Technology, Applications

Cognitive Neuroscience of Emotion

Components of emotional meaning

An Approach to Environmental Psychology

15th IFIP TC 13 International Conference, Bamberg, Germany, September 14-18, 2015, Proceedings, Part I

Etiology, Assessment, Neurobiology, and Treatment

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 Food preferences and tastes are among the fundamentals affecting human existence; the sociocultural, physiological and neurological factors involved have therefore been widely researched and are well documented. However, information and debate on these factors are scattered across the academic literature of different disciplines. In this volume cross-disciplinary perspectives are brought together by an international team of contributors that includes social and biological anthropologists,

ethologists and ethnologists, psychologists, neurologists and zoologists in order to provide access to the different specialisms on the topic.

This book constitutes the thoroughly refereed post-conference proceedings of the 9th International Symposium on Computer Music Modeling and Retrieval, CMMR 2012, held in London, UK, in June 2012. The 28 revised full papers presented were carefully reviewed and selected for inclusion in this volume. The papers have been organized in the following topical sections: music emotion analysis; 3D audio and sound synthesis; computer models of music perception and cognition; music emotion recognition; music information retrieval; film soundtrack and music recommendation; and computational musicology and music education. The volume also includes selected papers from the Cross-Disciplinary Perspectives on Expressive Performance Workshop held within the framework of CMMR 2012.

Encyclopedia of Personality and Individual Differences Springer

Essays on Emotion Theory

Affective Computing

Assessment, Theory, and Clinical Implications

Emotions and Affect in Human Factors and Human-Computer Interaction

Handbook of Emotion Elicitation and Assessment

Psychological Tools

Social Robotics

'The timely emergence of the book Research Companion to Emotions in Organizations is most welcome and highly valued. . . [it] has successfully brought together prominent researchers and authors who are actively involved in emotion research across the globe. . . the existence of this book brings a great help to facilitate research on the field. . . This book is highly recommended for postgraduate students and scholars who are interested in pursuing their quest for answers and solutions pertaining to emotion-related workplace problems. Consistent with its title, this book is a great companion to those embarking on this sort of scholarly journey.' - Abdul Kadir Othman, VISION - the Journal of Business Perspective

Since 1993, the IEEE Virtual Reality conference has been the premier international venue for the presentation of research results in the broad area of virtual reality (VR) Similarly, the IEEE Symposium on 3D User Interfaces (3DUI), which started as a workshop at IEEE VR in 2004, has become the premier venue for 3D user interfaces and 3D interaction in VR environments As of 2018, VR and 3DUI have been merged into a single IEEE Conference on Virtual Reality and 3D User Interfaces, with the short name IEEE VR

Emotion Measurement, Second Edition highlights key elements of emotions that should be considered in the measurement of emotions in both academic and commercial environments. This edition begins with an updated review of basic studies of emotion, including the theory, physiology, and psychology of emotions, as these are the foundational studies which food scientists as well as product developers and marketing professionals need to be aware of. The second section highlights methods for studying emotions, and reviews the different approaches to emotion measurement: questionnaire self-report, behavioral, and physiological. This section explores the merits of intrinsic versus extrinsic measures of emotion. Some new measurement approaches have emerged since the first edition of this book. The book then presents practical applications, with chapters on emotion research in food and beverage, as well as in a range of products and clinical settings. The experience in testing product emotions has increased since the first edition when product emotion research was newer. Finally, Emotion Measurement, Second Edition provides coverage of cross-cultural research on emotions. This is critical because much of the newer commercial research is aimed at markets around the world, requiring methods that work in many cultures. And the universality of emotions has been a topic of research for decades. Taking both an academic and applied approach, Emotion Measurement, Second Edition will be an invaluable reference for those conducting basic academic research on emotions and for sensory and consumer scientists, and the product developers and marketing professionals they work alongside. Reviews both the academic and the applied strands of emotion measurement research Focuses on cross-cultural studies of emotions, which is currently lacking from most of the literature in the field Highlights methods for studying emotions in both basic and applied studies

The rapid development in various fields of Digital Audio Effects, or DAFX, has led to new algorithms and this second edition of the popular book, DAFX: Digital Audio Effects has been updated throughout to reflect progress in the field. It maintains a unique approach to DAFX with a lecture-style introduction into the basics of effect processing. Each effect description begins with the presentation of the physical and acoustical phenomena, an explanation of the signal processing techniques to achieve the effect, followed by a discussion of musical applications and the control of effect parameters. Topics covered include: filters and delays, modulators and demodulators, nonlinear processing, spatial effects, time-segment processing, time-frequency processing, source-filter processing, spectral processing, time and frequency warping musical signals. Updates to the second edition include: Three completely new chapters devoted to the major research areas of: Virtual Analog Effects, Automatic Mixing and Sound Source Separation, authored by leading researchers in the field . Improved presentation of the basic concepts and explanation of the related technology. Extended coverage of the MATLABM scripts which demonstrate the implementation of the basic concepts into software programs. Companion website (www.dafx.de) which serves as the download source for MATLABM scripts, will be updated to reflect the new material in the book. Discussing DAFX from both an introductory and advanced level, the book systematically introduces the reader to digital signal processing concepts, how they can be applied to sound and their use in musical effects. This makes the book suitable for a range of professionals including those working in audio engineering, as well as researchers and engineers involved in the area of digital signal processing along with students on multimedia related courses.

11th International Conference, AC 2017, Held as Part of HCI International 2017, Vancouver, BC, Canada, July 9-14, 2017, Proceedings, Part I

Probing Experience

Emotion Regulation and Psychopathology in Children and Adolescents

12th International Conference, EuroHaptics 2020, Leiden, The Netherlands, September 6-9, 2020, Proceedings

Cognition and Emotion

A Novel Application to Measure Momentary Emotional States

Based upon lectures presented at an invitational colloquium in honor of Nico Frijda, this collection of essays represents a brief and up-to-date overview of the field of emotions, their significance and how they function. For most, emotions are simply what we feel, giving our lives affective value. Scientists approach emotions differently -- some considering the "feeling" aspect to be of little relevance to their research questions. Some investigators consider emotions from a phenomenological perspective, while others believe that the psychophysiological bases of the emotions are of prime importance, and still others observe and study animals in order to generate hypotheses about human emotions. Containing essays which represent each of these approaches, this book is in one sense a heterogeneous collection. Nevertheless, the variety of approaches and interests come together, since these scholars are all operating from a more or less cognitive psychological orientation and use the same conceptual reference scheme. Written by experts in their own area, the essays reflect the richness of research in emotions. Whether these approaches and opinions can be harmonized into a single theory of emotions is a question which the future will have to answer.

Measurement in Sport and Exercise Psychology provides a complete analysis of the tools and methods used in sport and exercise psychology research. Each chapter of this accessible text presents key measurement variables and concepts, including their definitions; an evaluation of the measurement constructs and tools available; and an explanation of any controversies in each topic. The text includes access to an online resource that presents 14 measurement instruments in their entirety.

This resource also contains additional web links to many other measurement instruments. Drawing on their experience as leading researchers in the field, editors Tenenbaum, Eklund, and Kamata have selected a team of recognized scholars to bring both breadth and depth to this essential resource. By thoroughly examining each measurement tool, Measurement in Sport and Exercise Psychology assists readers in determining strengths and limitations of each tool and discovering which tools are best suited to their research projects. Readers will also gain critical knowledge to expand the field by recognizing opportunities for new methods of measurement and evaluation. The text begins with a historical review of measurement in sport and exercise psychology followed by a comprehensive description of theories and measurement issues. It provides detailed information regarding ethical and cultural issues inherent in the selection of specific testing protocols as well as issues in interpreting meta-analysis. This is followed by discussion of the commonly used constructs and inventories in three areas: cognition, perception, and motivation measurement; emotion (affect) and coping measurement; and social and behavioral measurement. Recommendations for researchers and practitioners included at the end of each chapter provide starting points for considering ways to incorporate chapter content into research projects and professional practice. Tables located at the end of each chapter summarize key information for quick reference and provide online sources, when available, so that readers can access each measurement tool. Original source information is provided for those tools not available online. Measurement in Sport and Exercise Psychology assists readers in evaluating the effectiveness of specific measurement tools. As the most complete and up-to-date directory of tools and inventories in the field of sport and exercise, this text offers a thorough explanation of considerations, controversies, recommendations, and locations for accessing these measurement tools.

Emotion research has become a mature branch of psychology. This book contains background literature, psychometric data, and copies of stimuli, instruments, scales, and coding manuals, as well as advice from leaders in the field. It also helps to find, evaluate, and implement a scale in preparation for evaluating specific research questions.

This book adheres to the vision that in the future compelling user experiences will be key differentiating benefits of products and services. It is the first book to combine academic and business viewpoints on measuring user experiences for product development. The book gathers authors from different backgrounds. This is a mosaic of their work, and that of Philips Research, in the assessment of user experience, covering the full range from academic research to commercial propositions.

Digital Audio Effects

Research Companion to Emotion in Organizations

11th International Conference, AC 2017, Held as Part of HCI International 2017, Vancouver, BC, Canada, July 9-14, 2017, Proceedings, Part II

Emotions

Food Preferences and Taste

From Sounds to Music and Emotions

DAFX

Emotion in Posttraumatic Stress Disorder provides an up-to-date review of the empirical research on the relevance of emotions, such as fear, anxiety, shame, guilt, and disgust to posttraumatic stress disorder (PTSD). It also covers emerging research on the psychophysiology and neurobiological underpinnings of emotion in PTSD, as well as the role of emotion in the behavioral, cognitive, and affective difficulties experienced by individuals with PTSD. It concludes with a review of evidence-based treatment approaches for PTSD and their ability to mitigate emotion dysfunction in PTSD, including prolonged exposure, cognitive processing therapy, and acceptance-based behavioral therapy. Identifies how emotions are central to understanding PTSD. Explore the neurobiology of emotion in PTSD. Discusses emotion-related difficulties in relation to PTSD, such as impulsivity and emotion dysregulation. Provides a review of evidence-based PTSD treatments that focus on emotion.

Interdisciplinary perspectives on the feature of conscious life that scaffolds every act of cognition: subjective time. Our awareness of time and temporal properties is a constant feature of conscious life. Subjective temporality structures and guides every aspect of behavior and cognition, distinguishing memory, perception, and anticipation. This milestone volume brings together research on temporality from leading scholars in philosophy, psychology, and neuroscience, defining a new field of interdisciplinary research. The book's thirty chapters include selections from classic texts by William James and Edmund Husserl and new essays setting them in historical context; contemporary philosophical accounts of lived time; and current empirical studies of psychological time. These last chapters, the larger part of the book, cover such topics as the basic psychophysics of psychological time, its neural foundations, its interaction with the body, and its distortion in illness and altered states of consciousness. Contributors Melissa J. Allman, Holly Andersen, Valtteri Arstila, Yan Bao, Dean V. Buonomano, Niko A. Busch, Barry Dainton, Sylvie Droit-Volet, Christine M. Falter, Thomas Fraps, Shaun Gallagher, Alex O. Holcombe, Edmund Husserl, William James, Piotr Jaskowski, Jeremie Jozefowicz, Ryota Kanai, Allison N. Kurti, Dan Lloyd, Armando Machado, Matthew S. Matell, Warren H. Meck, James Mensch, Bruno Mölder, Catharine Montgomery, Konstantinos Moutoussis, Peter Naish, Valdas Noreika, Sukhvinder S. Obhi, Ruth Ogden, Alan o'Donoghue, Georgios Papadelis, Ian B. Phillips, Ernst Pöppel, John E. R. Staddon, Dale N. Swanton, Rufin VanRullen, Argiro Vatakis, Till M. Wagner, John Wearden, Marc Wittmann, Agnieszka Wykowska, Kielan Yarrow, Bin Yin, Dan Zahavi

This book constitutes the refereed proceedings of the 11th International Conference on Social Robotics, ICSR 2019, held in Madrid, Spain, in November 2019. The 69 full papers presented were carefully reviewed and selected from 92 submissions. The theme of the 2018 conference is: Friendly Robotics. The papers focus on the following topics: perceptions and expectations of social robots; cognition and social values for social robots; verbal interaction with social robots; social cues and design of social robots; emotional and expressive interaction with social robots; collaborative SR and SR at the workplace; game approaches and applications to HRI; applications in health domain; robots at home and at public spaces; robots in education; technical innovations in social robotics; and privacy and safety of the social robots.

In recent years-especially the past decade, in sharp contrast to preceding decades-knowledge in the field of emotions has been steadily increasing. This knowledge comes from many different specialties: Emotion is a truly interdisciplinary subject. Workers in the fields of physiology, neurology, ethology, physiological psychology, personality and social psychology, clinical psychology and psychiatry, medicine, nursing, social work, and the clergy are all directly concerned with emotion. Professions such as law and architecture have an obvious concern with emotions as they affect human motives and needs. The various branches of art, especially the performing arts, certainly deal with the emotions, especially with the expression of emotions. Constantine Stanislavsky, the Russian theatrical genius, revolutionized modern theater by developing a training method for actors and actresses that emphasized creating genuine emotion on the stage, the emotion appropriate to the character and the life situation being depicted. Indeed, one can hardly think of any human activity that is not related in some way to the field of emotion. Since the contributions to the subject of emotions come from so many different disciplines, it is difficult to find the important common themes that can yield an understanding of the field as a whole. This volume will attempt to make that task easier, but I recognize that no one can treat all of the diverse material expertly and in detail. My aim will be to represent all important types of contributions and perhaps point the way for further and more intensive study of special topics.

From Assessment of User Emotions and Behaviour to Development of Products

A sourcebook

The Measurement of Affect, Mood, and Emotion

Emotion in Posttraumatic Stress Disorder

Physical Activity and Emotion Regulation

Emotion Measurement

Clinician's Handbook of Adult Behavioral Assessment

This Encyclopedia provides a comprehensive overview of individual differences within the domain of personality, with major sub-topics including assessment and research design, taxonomy, biological factors, evolutionary evidence, motivation, cognition and emotion, as well as gender differences, cultural considerations, and personality disorders. It is an up-to-date reference for this increasingly important area and a key resource for those who study intelligence, personality, motivation, aptitude and their variations within members of a group.

Emotions are complex and multifaceted phenomena. Although they have been examined from a variety of perspectives, the study of the interaction between cognition and emotion has always occupied a unique position within emotion research. Many philosophers and psychologists have been fascinated by the relationship between thinking and feeling. During the past 30 years, research on the relationship between cognition and emotion has boomed and so many studies on this topic have been published that it is difficult to keep track of the evidence. This book fulfills the need for a review of the existing evidence on particular aspects of the interplay between cognition and emotion. The book assembles a collection of state-of-the-art reviews of the most important topics in cognition and emotion research: emotion theories, feeling and thinking, the perception of emotion, the expression of emotion, emotion regulation, emotion and memory, and emotion and attention. By bringing these reviews together, this book presents a unique overview of the knowledge that has been generated in the past decades about the many and complex ways in which cognition and emotion interact. As such, it provides a useful tool for both students and researchers alike, in the fields of social, clinical and cognitive psychology.

Until recently, most psychological research was conducted using subject samples in close proximity to the investigators--namely university undergraduates. In recent years, however, it has become possible to test people from all over the world by placing experiments on the internet. The number of people using the internet for this purpose is likely to become the main venue for subject pools in coming years. As such, learning about experiments on the internet will be of vital interest to all research psychologists. Psychological Experiments on the Internet is divided into three sections. Section I discusses the history of web experimentation, as well as the advantages, disadvantages, and validity of web-based psychological research. Section II discusses examples of web-based experiments on individual differences and cross-cultural studies. Section III provides readers with the necessary information and techniques for utilizing the internet in their own research designs. * Innovative topic that will capture the imagination of many readers * Includes examples of actual web based experiments

This open access book constitutes the proceedings of the 12th International Conference on Human Haptic Sensing and Touch Enabled Computer Applications,

EuroHaptics 2020, held in Leiden, The Netherlands, in September 2020. The 60 papers presented in this volume were carefully reviewed and selected from 111 submissions. They were organized in topical sections on haptic science, haptic technology, and haptic applications. This year's focus is on accessibility.

Examining the Relationship Between Emotions and Attitude Towards the Brand Using the Self-assessment Manikin
A Guide for Health-Behavioral Research

2021 IEEE Virtual Reality and 3D User Interfaces (VR)

9th International Symposium CMMR 2012, London, UK, June 19-22, 2012, Revised Selected Papers

The Measurement of Meaning

Augmented Cognition. Neurocognition and Machine Learning

Multimedia Content Representation, Classification and Security

Non Aboriginal material; behavioural responses, through the primary emotional responses of arousal, pleasure, and dominance, are affected by environmental stimuli.

Emotions are a cardinal component of everyday life, affecting one's ability to function in an adaptive manner and influencing both intrapersonal and interpersonal processes such as self-esteem and relationship satisfaction. However, when emotions are overpowering, they can become debilitating and intrusive in daily life. In general, emotion regulation competencies become differentiated as a function of development. Children tend to seek support from adults or use behavioral techniques to regulate their emotions. As children reach adolescence, they become increasingly self-reliant, engaging in planful problem solving and utilizing cognitive strategies (for example, reappraisal) more frequently when faced with stressful life events. While the majority of children and adolescents will successfully navigate these developmental stages by cultivating adaptive coping skills, for some, this marks the beginning of lifelong challenges with emotion regulation and resultant dysregulation. This book provides a guide to dealing with these problems, with contributions from leading experts in the field. Divided into 4 sections, it starts by providing an introduction to the field of emotion regulation in adolescents, touching upon the cultural, social, biological, and developmental issues related to this topic. Section two discusses several psychological disorders impacting adolescents such as anxiety, depression and conduct problems, while also discussing the underlying role emotion regulation plays in the development, maintenance and propagation of these disorders. In addition, this section considers the implication for treatment by discussing the latest evidence-based intervention approaches. The third section focuses on the role of emotion regulation in specific behaviour/populations, such as children of abuse and neglect, as well as adolescents who engage in nonsuicidal self-injury. The final section includes an epilogue, discussing emergent areas of research, answering questions of a theoretical, psychological, and empirical nature. For all those working in the field of mental health, whether novice or experienced, the book provides a valuable guide to understanding and treating these increasingly common problems.

Sensory Evaluation of Sound provides a detailed review of the latest sensory evaluation techniques, specifically applied to the evaluation of sound and audio. This three-part book commences with an introduction to the fundamental role of sound and hearing, which is followed by an overview of sensory evaluation methods and associated univariate and multivariate statistical analysis techniques. The final part of the book provides several chapters with concrete real-world applications of sensory evaluation ranging from telecommunications, hearing aids design and binaural sound, via the latest research in concert hall acoustics through to audio-visual interaction. Aimed at the engineer, researcher, university student or manager the book gives insight into the advanced methods for the sensory evaluation with many application examples. Introduces the fundamental of hearing and the value of sound Provides a firm theoretical basis for advanced techniques in sensory evaluation of sound that are then illustrated with concrete examples from university research through to industrial product development Includes chapters on sensory evaluation practices and methods as well as univariate and multivariate statistical analysis Six application chapters covering a wide range of concrete sensory evaluation study examples including insight into audio-visual assessment Includes data analysis with several associated downloadable datasets Provides extensive references to the existing research literature, text books and standards

Given the vast amount of research related to behavioral assessment, it is difficult for clinicians to keep abreast of new developments. In recent years, there have been advances in assessment, case conceptualization, treatment planning, treatment strategies for specific disorders, and considerations of new ethical and legal issues. Keeping track of advances requires monitoring diverse resources limited to specific disorders, many of which are theoretical rather than practical, or that offer clinical advice without providing the evidence base for treatment recommendations. This handbook was created to fill this gap, summarizing critical information for adult behavioral assessment. The Clinician's Handbook of Adult Behavioral Assessment provides a single source for understanding new developments in this field, cutting

across strategies, techniques, and disorders. Assessment strategies are presented in context with the research behind those strategies, along with discussions of clinical utility, and how assessment and conceptualization fit in with treatment planning. The volume is organized in three sections, beginning with general issues, followed by evaluations of specific disorders and problems, and closing with special issues. To ensure cross chapter consistency in the coverage of disorders, these chapters are formatted to contain an introduction, assessment strategies, research basis, clinical utility, conceptualization and treatment planning, a case study, and summary. Special issue coverage includes computerized assessment, evaluating older adults, behavioral neuropsychology, ethical-legal issues, work-related issues, and value change in adults with acquired disabilities. Suitable for beginning and established clinicians in practice, this handbook will provide a ready reference toward effective adult behavioral assessment.

Subjective Time

Measurement in Sport and Exercise Psychology

Using the Self-assessment Manikin to Examine the Link Between Affect and Purchase Intention

The Photographic Affect Meter

Design and Emotion

A Predictive View of Emotional Response to Brand Attitudes

The Philosophy, Psychology, and Neuroscience of Temporality

The logic of semantic differentiation; The dimensionality of the semantic space; The semantic differential as a measuring instrument; Evaluation of the semantic differential; Attitude measurement and the principle of congruity; Semantic measurement in personality and psychotherapy research; Semantic measurement in communications research.

This book, a member of the Series in Affective Science, is a unique interdisciplinary sequence of articles on the cognitive neuroscience of emotion by some of the most well-known researchers in the area. It explores what is known about cognitive processes in emotion at the same time it reviews the processes and anatomical structures involved in emotion, determining whether there is something about emotion and its neural substrates that requires they be studied as a separate domain. Divided into four major focal points and presenting research that has been performed in the last decade, this book covers the process of emotion generation, the functions of amygdala, the conscious experience of emotion, and emotion regulation and dysregulation. Collectively, the chapters constitute a broad but selective survey of current knowledge about emotion and the brain, and they all address the close association between cognitive and emotional processes. By bringing together diverse strands of investigation with the aim of documenting current understanding of how emotion is instantiated in the brain, this book will be of use to scientists, researchers, and advanced students of psychology and neuroscience.

Publications on emotion (and the affective sciences in general) have exploded in the last decade. Numerous research teams and individual scholars from many different disciplines have published research papers or books about many different aspects of emotions and their role in behaviour and society. However, One aspect of emotional research that has been somewhat neglected, is the way in which emotional terms translate into other languages. When using terms like anger, sadness, fear, disgust, and joy for so-called basic emotions, as well as terms like shame, guilt, pride, regret and contempt for more complex emotions, it is naturally assumed that the emotion terms used for research in the native language of the researchers and translated into English are completely equivalent in meaning. However, this is not generally the case. In many cases there is no direct one to one relationship between an English term and a term in an alternative language. In fact, there can be significant differences in the way that these seemingly similar emotional terms can be applied across various languages, with important implications for how we review and appraise this work. This book presents an extensive cross-cultural and cross-linguistic review of the meaning of emotion words, adopting a novel methodological approach. Based on the Component Process Model, the authors developed a new instrument to assess the meaning of emotion terms. This instrument, the GRID questionnaire, consists of a grid of 24 emotion terms spanning the emotion domain and 142 emotion features that operationalize five emotion components (Appraisals, Bodily reactions, Expressions, Action tendencies, and Feelings). For the operationalization of these five emotion components, very different emotion models from the Western and the cultural-comparative emotion literature were taken into account. 'Components of Emotional Meaning' includes contributions from psychological, cultural-comparative, and linguistic perspectives demonstrating how this new instrument can be used to empirically study very different research questions on the meaning of emotion terms. The implications of the results for major theoretical debates on emotion are also discussed. For all researchers in the affective sciences, this book is an important new reference work.

Panteleimon Ekkekakis provides an accessible guidebook which clarifies theory and proposes a sound system for selecting measures for affective constructs.

Sensory Evaluation of Sound

Sleep and Affect

Human Emotions

Continuity and Change

Reviews of Current Research and Theories

Augmented Cognition. Enhancing Cognition and Behavior in Complex Human Environments

A Sociocultural Approach to Education

There is considerable interest in and growing recognition of the emotional domain in product development. The relationship between the user and the product is paramount in industry, which investments in this area. Traditional ergonomic approaches to design have concentrated on the user's physical and cognitive abil

This book constitutes the refereed proceedings of the International Workshop on Multimedia Content Representation, Classification and Security, MRCS 2006. The book presents 100 revised

lectures. Coverage includes biometric recognition, multimedia content security, steganography, watermarking, authentication, classification for biometric recognition, digital watermarking, content representation, 3D object retrieval and classification, representation, analysis and retrieval in cultural heritage, content representation, indexing and retrieval, and more.

The purpose of the study was to determine the impact of a 10 minute brisk walk on the affective state of young adults following the induction of negative affect (Velten Mood Induction). One hundred students (37 male, 73 female) were randomly assigned to one of three intervention groups: (a) a walk group (n=37), (b) a cognitive distraction group (n=36), and (c) a control group in which Valence and arousal of affect were measured by the Self Assessment Manikin (SAM) and the Activation Deactivation Adjective Checklist (AD ACL) over time. A 3 (group) by 3 (time) ANCOVA revealed that the walk group had significantly higher scores on arousal, energetic arousal and tense arousal than the other groups. The findings suggest that if you feel a little upset a short (10 minute) walk may help you regulate your emotion. Emotion plays an ever-present role in human existence, impacting nearly every behavior and decision in some way. Research in the behavioral sciences is rife with exploration of emotion and its impact from business decision making to health-related behavior. However, affect, the feeling or experience of emotion, is complex and presents many challenges to those interested in measuring it, especially the relationship between the way emotion is experienced and felt and the way that researchers measure it. This dissertation addresses the challenges of measuring emotion through the presentation of the development of a novel measure of affect. The Photographic Affect Meter, PAM, is a digital measure of affect in which subjects choose from a grid of photos the one that best represents their current emotional state. PAM is to provide researchers with a means of measuring affect that is brief, reliable, and effective when used in situ. PAM was developed through an extensive iterative design process anchored in user-centered interaction research, drawing inspiration from Affective Computing and Design literature. PAM was then rigorously validated via three separate studies. In the first two studies, subjects were compared to one of three widely accepted measures of affect (PANAS, Russell's Affect Grid, or the Self Assessment Manikin). In the third study, subjects were induced with negative, neutral, or positive affect using PAM. In each of the studies, PAM results were found to be consistent with expectation, establishing the validity and reliability of the measure. While the success of this approach has implications for Affective Computing, Emotion, Design, and Ecological Momentary Assessment, the primary contribution of this work is the introduction of a novel measure of affect that is ready to be deployed in a wide range of contexts. International Workshop, MRCS 2006, Istanbul, Turkey, September 11-13, 2006, Proceedings

Transactions on Computational Science XII

Special Issue on Cyberworlds

Walking to Regulate Experimentally Induced Negative Affect

Psychological Experiments on the Internet

Encyclopedia of Personality and Individual Differences

A Predictive Look at Emotional Response to Advertising

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.

The concept of "psychological tools" is a cornerstone of L. S. Vygotsky's sociocultural theory of cognitive development. Psychological tools are the symbolic cultural artifacts--signs, symbols, texts, formulae, and most fundamentally, language--that enable us to master psychological functions like memory, perception, and attention in ways appropriate to our cultures. In this lucid book, Alex Kozulin argues that the concept offers a useful way to analyze cross-cultural differences in thought and to develop practical strategies for educating immigrant children from widely different cultures. Kozulin begins by offering an overview of Vygotsky's theory, which argues that consciousness arises from communication as civilization transforms "natural" psychological functions into "cultural" ones. He also compares sociocultural theory to other innovative approaches to learning, cognitive education in particular. And in a vivid case study, the author describes his work with recent Ethiopian immigrants to Israel, whose traditional modes of learning were oral and imitative, and who consequently proved to be quick at learning conversational Hebrew, but who struggled with the reading, writing, and formal problem solving required by a Western classroom. Last, Kozulin develops Vygotsky's concept of psychological tools to promote literature as a useful tool in cognitive development. With its explication of Vygotsky's theory, its case study of sociocultural pedagogy, and its suggested use of literary text for cognitive development, Psychological Tools will be of considerable interest to research psychologists and educators alike.

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