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XIII Mediterranean Conference on Medical and Biological Engineering and Computing 2013 World Congress on Medical Physics and Biomedical Engineering May 26-31, 2012, Beijing, China 11th Mediterranean Conference on Medical and Biological Engineering and Computing 2007 6th European Conference of the International Federation for Medical and Biological Engineering 5th European Conference of the International Federation for Medical and Biological Engineering 14 - 18 September 2011, Budapest, Hungary World Congress on Medical Physics and Biomedical Engineering 2018 Data Acquisition EMBEC & NBC 2017 Driver Distraction and Inattention Biomedical Technology and Devices Handbook Translational Applications of Neuroimaging 16th Nordic-Baltic Conference on Biomedical Engineering 4th European Conference of the International Federation for Medical and Biological Engineering 23 - 27 November 2008, Antwerp, Belgium Natural and Artificial Computation for Biomedicine and Neuroscience AARC Times Handbook of Research on Democratic Strategies and Citizen-Centered E-Government Services International Symposium on Biomedical Engineering and Medical Physics, 10-12 October, 2012, Riga, Latvia From Human Attention to Computational Attention Advances in Natural Computation Journal of Clinical Sleep Medicine Laura M. Roa Romero Mian Long Tomaz Jarm Igor Lacković Ákos Jobbágy Lenka Lhotska Michele Vadursi Hannu Eskola John D. Lee George Zouridakis Stavros Skouras Henrik Mindedal Jos van der Sloten José Manuel Ferrández Vicente Dolićanin, Čemal Yuri Dekhtyar Matei Mancas Lipo Wang

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the general theme of medicon 2013 is research and development of technology for sustainable healthcare this decade is being characterized by the appearance and use of emergent technologies under development this situation has produced a tremendous impact on medicine and biology from which it is expected an unparalleled evolution in these disciplines towards novel concept and practices the consequence will be a significant improvement in health care and well fare i e the shift from a reactive medicine to a preventive medicine this shift implies that the citizen will play an important role in the healthcare delivery process what requires a comprehensive and personalized assistance in this context society will meet emerging media incorporated to all objects capable of providing a seamless adaptive anticipatory unobtrusive and pervasive assistance the challenge will be to remove current barriers related to the lack of knowledge required to produce new opportunities for all the society while new paradigms are created for this inclusive society to be socially and economically sustainable and respectful with the environment in this way these proceedings focus on the convergence of biomedical engineering topics ranging from formalized theory through experimental science and technological development to practical clinical applications

the congress s unique structure represents the two dimensions of technology and medicine 13 themes on science and medical technologies intersect with five challenging main topics of medicine to create a maximum of synergy and integration of aspects on research development and application each of the congress themes was chaired by two leading experts the themes address specific topics of medicine and technology that provide multiple and excellent opportunities for exchanges

biomedical engineering today is a well recognized area of research it brings together bright minds from diverse disciplines ranging from engineering physics and computer sciences on one side to biology and medicine on the other side with valuable assistance of members of the international

advisory committee and scientific program committee the co organizing institutions and societies our sponsors and distinguished invited lecturers we will ensure that the research and development presented at medicon 2007 plenary meetings scientific sessions and workshops will truly be relevant and up to date the medicon conferences are international events of high scientific standards with long lasting tradition held every third year in one of the mediterranean countries under the auspices of the international federation for medical and biological engineering

this volume presents the proceedings of the 6th european conference of the international federation for medical and biological engineering mbec2014 held in dubrovnik september 7 11 2014 the general theme of mbec 2014 is towards new horizons in biomedical engineering the scientific discussions in these conference proceedings include the following themes biomedical signal processing biomedical imaging and image processing biosensors and bioinstrumentation bio micro nano technologies biomaterials biomechanics robotics and minimally invasive surgery cardiovascular respiratory and endocrine systems engineering neural and rehabilitation engineering molecular cellular and tissue engineering bioinformatics and computational biology clinical engineering and health technology assessment health informatics e health and telemedicine biomedical engineering education

this volume presents the 5th european conference of the international federation for medical and biological engineering embec held in budapest 14 18 september 2011 the scientific discussion on the conference and in this conference proceedings include the following issues signal image processing ict clinical engineering and applications biomechanics and fluid biomechanics biomaterials and tissue repair innovations and nanotechnology modeling and simulation education and professional

this book vol 2 presents the proceedings of the iupesm world congress on biomedical engineering and medical physics a triennially organized joint meeting of medical physicists biomedical engineers and adjoining health care professionals besides the purely scientific and technological topics the 2018 congress will also focus on other aspects of professional involvement in health care such as education and training accreditation and certification health technology assessment and patient safety the iupesm meeting is an important forum for medical physicists and biomedical engineers in medicine and healthcare learn and share knowledge and discuss the latest research outcomes and technological advancements as well as new ideas in both medical physics and biomedical engineering field

the book is intended to be a collection of contributions providing a bird s eye view of some relevant multidisciplinary applications of data acquisition while assuming that the reader is familiar with the basics of sampling theory and analog to digital conversion the attention is focused on applied research and industrial applications of data acquisition even in the few cases when theoretical issues are investigated the goal is making the theory comprehensible to a wide application oriented audience

this volume presents the proceedings of the joint conference of the european medical and biological engineering conference embec and the nordic baltic conference on biomedical engineering and medical physics nbc held in tampere finland in june 2017 the proceedings present all traditional biomedical engineering areas but also highlight new emerging fields such as tissue engineering bioinformatics biosensing neurotechnology additive manufacturing technologies for medicine and biology and bioimaging to name a few moreover it emphasizes the role of education translational research and commercialization

it is estimated that in the united states around 20 percent of all police reported road crashes involve driver distraction as a contributing factor this figure increases if other forms of inattention are considered evidence reviewed in this volume suggests that the situation is similar in other countries and that driver distraction and inattention are even more dangerous as contributing factors in crashes than drug and alcohol intoxication having a solid evidence base from which to develop injury countermeasures is a cornerstone of road safety management this book adds to the accumulating evidence base on driver distraction and inattention with 24 chapters by 52 authors from more than 10 countries it provides important new perspectives on the definition and meaning of driver distraction and inattention the mechanisms that characterize them the measurement of their effects strategies for mitigating their effects and recommendations for further research the goal of this book is to inspire further research and countermeasure development to prevent and mitigate the potentially adverse effects of driver distraction and driver inattention and in doing so to save lives

concise yet comprehensive the biomedical technology and devices handbook illuminates the equipment devices and techniques used in modern medicine to diagnose treat and monitor human illnesses with topics ranging from the basic procedures like blood pressure measurement to cutting edge imaging equipment biological tests and genetic engineering this book is organized to navigate smoothly from

simple procedures and concepts to the more sophisticated and complex ones each section contains a description of the technique its technical considerations and its use according to its applications and relevant body systems the book includes references to relevant sites protocols problems and solutions

despite substantial progress in the development of neuroimaging methodologies translational applications of neuroimaging remain scarce this research topic invites article submissions that present promising neuroimaging applications and methods addressing critical needs for improving health outcomes these may include original research clinical trial systematic review or methods articles that investigate neuroimaging metrics as outcome measures or in combination with neural perturbation techniques e g neurofeedback neurostimulation other translational applications e g guiding neurosurgery to foster debate we also welcome critical review opinion and perspective articles that survey the field and its progress towards clinical utility

this volume presents the proceedings of the joint 16th nordic baltic conference on biomedical engineering medical physics and medicinteknikdagarna 2014 the conference theme is strategic innovation it aims at inspiring increased triple helix collaborations between health care providers academia and the medtech industry

the 4th european congress of the international federation for medical and biological federation was held in antwerp november 2008 the scientific discussion on the conference and in this conference proceedings include the following issues signal image processing ict clinical engineering and applications biomechanics and fluid biomechanics biomaterials and tissue repair innovations and nanotechnology modeling and simulation education and professional

the two volumes lncs 10337 and 10338 constitute the proceedings of the international work conference on the interplay between natural and artificial computation iwinac 2017 held in corunna spain in june 2017 the total of 102 full papers was carefully reviewed and selected from 194 submissions during two rounds of reviewing and improvement the papers are organized in two volumes one on natural and artificial computation for biomedicine and neuroscience addressing topics such as theoretical neural computation models natural computing in bioinformatics physiological computing in affective smart environments emotions as well as signal processing and machine learning applied to biomedical and neuroscience applications the second volume deals with biomedical applications based on natural and

artificial computing and addresses topics such as biomedical applications mobile brain computer interaction human robot interaction deep learning machine learning applied to big data analysis computational intelligence in data coding and transmission and applications

over the past few years e government has been rapidly changing the way governmental services are provided to citizens and businesses these services improve business and government exchange capability provide a new way to discover and share information and play a part in the evolution of future technologies the handbook of research on democratic strategies and citizen centered e government services seeks to address which services in e government should be provided to users and how this premier reference work gives an overview of the latest achievements in the field of e government services provides in depth analysis of and research on the development and deployment of cutting edge applications and provides insight into future trends for researchers teachers students government workers and it professionals

this volume presents the proceedings of the international symposium on biomedical engineering and medical physics and is dedicated to the 150 anniversary of the riga technical university latvia the content includes various hot topics in biomedical engineering and medical physics

this both accessible and exhaustive book will help to improve modeling of attention and to inspire innovations in industry it introduces the study of attention and focuses on attention modeling addressing such themes as saliency models signal detection and different types of signals as well as real life applications the book is truly multi disciplinary collating work from psychology neuroscience engineering and computer science amongst other disciplines what is attention we all pay attention every single moment of our lives attention is how the brain selects and prioritizes information the study of attention has become incredibly complex and divided this timely volume assists the reader by drawing together work on the computational aspects of attention from across the disciplines those working in the field as engineers will benefit from this book s introduction to the psychological and biological approaches to attention and neuroscientists can learn about engineering work on attention the work features practical reviews and chapters that are quick and easy to read as well as chapters which present deeper more complex knowledge everyone whose work relates to human perception to image audio and video processing will find something of value in this book from students to researchers and those in industry

this book and its sister volumes i e lnacs vols 3610 3611 and 3612 are the proceedings of the 1st international conference on natural computation icnc 2005 jointly held with the 2nd international conference on fuzzy systems and knowledge discovery fskd 2005 lnai vols 3613 and 3614 from 27 to 29 august 2005 in changsha hunan china

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