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Editorial: Non-invasive physiological measurements: from discovery to implementation

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REPORT CHIEFLE

non-invasive measurements, physiological measurements, discovery, clinical, translation

Editorial on the Research Topic

Editorial: Non-invasive physiological measurements: from discovery to implementation

Introduction

The goal of this Research Topic, developed by the American College of Sports Medicine Non-Invasive Physiology (ACSM-NIP) interest group, was to demystify and increase the accessibility of non-invasive physiological measurement tools and procedures. The nomenclature "noninvasive physiological measurement" typically conjures imagery of laboratory wizardry and blue-skies science (e.g., where real-world applications are not immediately apparent). However, compared to invasive measurements, noninvasive physiological measurements often reduce financial and time burdens, lower risk of harm, and provide greater accessibility. These benefits may extend beyond the research setting to the clinical setting. Non-invasive measurements are crucial to a myriad of study types and research questions with implications spanning the research-clinical spectrum. Broad examples of research types in which non-invasive physiological measurements are used or have important implications include: i) discovery (interpreting clinical signals to better understand systems physiology), ii) clinical and preclinical/subclinical (establishing efficacy and safety of techniques or interventions, iii) epidemiological: identifying the distribution of disease or track coborts, and iv) implementation (medical system approaches for tracking patient health). We, via this Research Topic, were interested in all article types (e.g., original research, brief reports, etc.) including those focused on bioengineering, mathematical modelling, laboratory-studies, clinical studies, epidemiological studies, and implementation studies. We were also interested in articles with implications for diversity, equity, and inclusivity, including those addressing life-stage, sex, gender, race, ethnicity, and disabilities.

Non Invasive Physiological Measurements

P. Ake Oberg, Tatsuo Togawa, Francis A. Spelman

Non Invasive Physiological Measurements:

Noninvasive Physiological Measurement James C. Lin, 2024-05-08 This book explains the principles and techniques of microwave physiological sensing and introduces fundamental results of the noninvasive sensing of physiological signatures vital signs as well as life detection Specifically noninvasive microwave techniques for contact contactless and remote sensing of circulatory and respiratory movements and physiological volume changes are discussed Noninvasive Physiological Measurement Wireless Microwave Sensing is written by a pioneering researcher in microwave noninvasive physiological sensing and leading global expert in microwaves in biology and medicine The book reviews current advances in noninvasive cardiopulmonary sensing technology and measurement It includes measurements of the vital signs and physiological signatures from laboratory and clinical testing The book discusses the applicable domains and scenarios in which there is an interaction of radio frequency RF and microwaves with biological matter in gas fluid or solid form both from inside and outside of the human or animal body The book also provides examples for healthcare monitoring and diagnostic applications through wearables devices or remote contactless sensors for physiological signals and signature vital signs and body motion sensing This book is an essential guide to understanding the human body s interaction with microwaves and noninvasive physiological sensing and monitoring This book is intended for researchers and professionals in biomedical electrical and computer engineering with an interest in antenna sensors microwaves signal processing and medical applications It will also be of interest to healthcare professionals technologists and practitioners interested in noninvasive physiological sensing and patient monitoring Non-invasive Physiological Measurements Peter Rolfe, 1983 Non-invasive Physiological Measurements Peter Rolfe, 1983 Non-invasive physiological measurements. Vol. 2 P. Rolfe, 1983 **Encyclopedia** of Psychological Assessment Rocio Fernandez-Ballesteros, 2002-12-20 once you let a clinical psychologist lay hands on this book it is quite difficult to get it back again Martin Guha Librarian Institute of Psychiatry London The Encyclopedia of Psychological Assessment is a landmark reference work and constitutes a definitive resource for academics practitioners and students working in any field of applied psychological science Psychological assessment is a key component of psychological work Devices of scientific assessment are necessary for adequate describing diagnosis predicting explaining or changing the behaviour of all subjects under examination This double volume collection offers complete coverage to facilitate action in each of these areas and will consequently be invaluable to psychologists in any applied setting The two volumes of the Encyclopedia of Psychological Assessment contain a series of 235 entries organized alphabetically and covering a variety of fields Each entry includes a general conceptual and methodological overview a section on relevant assessment devices followed by links to related concepts in the Encyclopedia and a list of references The Encyclopedia of Psychological Assessment provides A comprehensive network for psychological assessment as a conceptual and methodological discipline and as a professional activity An overview of the complexity of assessment which involves not only testing but also a process

of decision making for answering relevant questions that arise in the different applied fields A presentation of relevant issues from basic theory theoretical perspectives ethics and methodology validity reliability item response theory to technology and modes of assessment tests instruments and equipment for measuring behavioral operations. An attempt to unify this diverse field by offering full coverage of all areas from the most traditional such as clinical educational and work and organizational psychology to the most recent applications linked to health gerontology neuropsychology psychophysiology and environmental assessment The Encyclopedia of Psychological Assessment offers a truly international perspective both in terms of the selected authors and chosen entries It aims to provide an integrated view of assessment bringing together knowledge dispersed throughout several methodological and applied fields but united in terms of its relevance for assessment It is an essential purchase for any library with an existing collection or concern with the field of psychological science in general Measurement, Instrumentation, and Sensors Handbook John G. Webster, Halit Eren, 2017-12-19 The Second Edition of the bestselling Measurement Instrumentation and Sensors Handbook brings together all aspects of the design and implementation of measurement instrumentation and sensors Reflecting the current state of the art it describes the use of instruments and techniques for performing practical measurements in engineering physics chemistry and the life sciences and discusses processing systems automatic data acquisition reduction and analysis operation characteristics accuracy errors calibrations and the incorporation of standards for control purposes Organized according to measurement problem the Electromagnetic Optical Radiation Chemical and Biomedical Measurement volume of the Second Edition Contains contributions from field experts new chapters and updates to all 98 existing chapters Covers sensors and sensor technology time and frequency signal processing displays and recorders and optical medical biomedical health environmental electrical electromagnetic and chemical variables A concise and useful reference for engineers scientists academic faculty students designers managers and industry professionals involved in instrumentation and measurement research and development Measurement Instrumentation and Sensors Handbook Second Edition Electromagnetic Optical Radiation Chemical and Biomedical Measurement provides readers with a greater understanding of advanced applications

Measurement, Instrumentation, and Sensors Handbook, Second Edition John G. Webster, Halit Eren, 2014-02-03 The Second Edition of the bestselling Measurement Instrumentation and Sensors Handbook brings together all aspects of the design and implementation of measurement instrumentation and sensors Reflecting the current state of the art it describes the use of instruments and techniques for performing practical measurements in engineering physics chemistry and the life sciences and discusses processing systems automatic data acquisition reduction and analysis operation characteristics accuracy errors calibrations and the incorporation of standards for control purposes Organized according to measurement problem the Electromagnetic Optical Radiation Chemical and Biomedical Measurement volume of the Second Edition Contains contributions from field experts new chapters and updates to all 98 existing chapters Covers sensors and sensor

technology time and frequency signal processing displays and recorders and optical medical biomedical health environmental electrical electromagnetic and chemical variables A concise and useful reference for engineers scientists academic faculty students designers managers and industry professionals involved in instrumentation and measurement research and development Measurement Instrumentation and Sensors Handbook Second Edition Electromagnetic Optical Radiation Chemical and Biomedical Measurement provides readers with a greater understanding of advanced applications *Modern Bioelectricity* Andrew A. Marino,2020-08-27 This book presents an overview of the field of bioelectricity by demonstrating the biological significance of electromagnetic fields electrical properties of tissue biological effects of electromagnetic energy and therapeutic applications and health hazards of electromagnetic energy Psychophysiological Recording Robert Morris Stern, William J. Ray, Karen S. Quigley, 2001 This is a thorough revision of an introductory text on psychophysiological recording with new information on equipment used to do brain scanning and other equipment not available in 1980

Adapting to the Future Courtland S. Lewis, 1991 Biophysiological Measures in Nursing Research Muayyad Ahmad, 2025-07-30 A thorough examination of biophysiological measures and their practical applications in nursing research and practice is offered in this comprehensive textbook This section encompasses a broad spectrum of subjects including basic evaluations such as blood pressure and oxygen saturation as well as sophisticated techniques like electrocardiography ECG electromyography EMG and advanced imaging modalities This book underscores the importance of these measures in the diagnosis and management of a variety of health conditions with a particular emphasis on cultural sensitivities and ethical considerations Designed to improve patient care and advance the field of nursing this resource is indispensable for nursing students researchers and practitioners who prioritize evidence based practice and innovative technologies such as wearable devices and artificial intelligence **Sensors in Medicine and Health Care** P. Ake Oberg, Tatsuo Togawa, Francis A. Spelman, 2006-03-06 Taken as a whole this series covers all major fields of application for commercial sensors as well as their manufacturing techniques and major types As such the series does not treat bulk sensors but rather places strong emphasis on microsensors microsystems and integrated electronic sensor packages Each of the individual volumes is tailored to the needs and queries of readers from the relevant branch of industry A review of applications for point of care diagnostics their integration into portable systems and the comfortable easy to use sensors that allow patients to monitor themselves at home The book covers such advanced topics as minimal invasive surgery implantable sensors and prostheses as well as biocompatible sensing HCI in Mobility, Transport, and Automotive Systems. Automated Driving and In-Vehicle Experience Design Heidi Krömker, 2020-07-10 This two volume set LNCS 12212 and 12213 constitutes the refereed proceedings of the Second International Conference on HCI in Mobility Transport and Automotive Systems MobiTAS 2020 held as part of the 22nd International Conference on Human Computer Interaction HCII 2020 in Copenhagen Denmark in July 2020 A total of 1439 full papers and 238 posters have been carefully reviewed and accepted for publication in HCII

2020 The papers cover the entire field of human computer interaction addressing major advances in knowledge and effective use of computers in a variety of application areas MobiTAS 2020 includes a total of 59 papers and they are organized in the following topical sections Part I Automated Driving and In Vehicle Experience Design UX topics in automated driving and designing in vehicle experiences Part II Driving Behavior Urban and Smart Mobility studies on driving behavior and urban and smart mobility The conference was held virtually due to the COVID 19 pandemic **Aviation Psychology: Practice** and Research Klaus-Martin Goeters, 2017-03-02 In the well established aviation system the importance of sound human factors practice based on good aviation psychology research is obvious from those incidents and accidents resulting from its neglect This carefully structured book presents an up to date review of the main areas in the field of Aviation Psychology It contains current thinking mainly from Europe but with input from Australia and North America from specialists involved in research training and operational practice Spanning six parts the book covers Human Engineering Occupational Demands Selection of Aviation Personnel Human Factors Training Clinical Psychology Accident Investigation and Prevention Looking at the six parts in human engineering the reader learns about human centered automation as well as human factors issues in aircraft certification Results derived by job analysis methods are presented in the next part and serve as basic information in the design of selection and training programs In selection computerized testing or behaviour oriented assessments are challenging approaches for personnel recruitment Cost benefit analyses in selection reveal convincing results enabling organizations to save huge amounts of inappropriate training investment by the application of proper selection tests The NOTECHS method is described which helps to assess CRM capabilities in training and can also be used to measure training effects in systematic validation studies Although operational personnel in aviation are usually able to cope with stress more efficiently than other occupational groups individual problems might develop as reactions to traumatic influences Either a psychological evaluation or a proper treatment or both is then required as described in the Clinical Psychology part of the book The readership includes aviation psychologists and flight surgeons training selection and recruitment specialists instructor pilots CRM facilitators personnel managers accident investigators safety pilots air traffic controllers aircraft engineers and those dealing with human machine interfaces **Paediatric Lung Function** U. Frey, P.J.F.M. Merkus, 2010-03-01 This Monograph offers a comprehensive review of the lung function techniques available in paediatric pulmonology This field is still developing rapidly and equipment and software can tell us more than ever about respiratory physiology in health and disease in children with various lung disorders Experts from around the globe provide a review of the techniques used with a special focus on clinical applications and their usefulness in diagnosing and treating children with chronic lung disease **SAM-TR.** ,1976 Annual Reports on NMR Spectroscopy, 1992-03-09 The protean nature of the applications of NMR is regularly reflected in Annual Reports on NMR Spectroscopy Volume 24 is no exception and it is an ineluctable fact that all areas of science appear to benefit upon submission to the blandishments of NMR The examples

provided here encompass solid state NMR solid state NMR imaging NMR studies of interfaces NMR investigations of cells and organisms 199 Mercury NMR and some applications of NMR to the area of coal science Biomedical Sensors and *Instruments* Tatsuo Tagawa, Toshiyo Tamura, P. Ake Oberg, 2011-03-22 The living body is a difficult object to measure accurate measurements of physiological signals require sensors and instruments capable of high specificity and selectivity that do not interfere with the systems under study As a result detailed knowledge of sensor and instrument properties is required to be able to select the best sensor from o Emerging Trends in Engineering, Science and Technology for Society, Energy and Environment Rajesh Vanchipura, K.S. Jiji, 2018-08-06 The International Conference on Emerging Trends in Engineering Science and Technology ICETEST was held at the Government Engineering College Thrissur Kerala India from 18th to 20th January 2018 with the theme Society Energy and Environment covering related topics in the areas of Civil Engineering Mechanical Engineering Electrical Engineering Chemical Engineering Electronics Communication Engineering Computer Science and Architecture Conflict between energy and environment has been of global significance in recent years Academic research needs to support the industry and society through socially and environmentally sustainable outcomes ICETEST 2018 was organized with this specific objective The conference provided a platform for researchers from different domains to discuss and disseminate their findings Outstanding speakers faculties and scholars from different parts of the world presented their research outcomes in modern technologies using sustainable technologies Pharmacological Research Nicolau Beckmann, Igor A. Kaltashov, Albert D. Windhorst, 2017-08-08 The discovery and development of a biological active molecule with the rapeutic properties is an ever increasing complex task highly unpredictable at the early stages and marked in the end by high rates of failure As a consequence the overall process leading to the production of a successful drug is very costly. The improvement of the net outcome in drug discovery and development would require amongst other important factors a good understanding of the molecular events that characterize the disease or pathology in order to better identify likely targets of interest to optimize the interaction of an active agent small molecule or macromolecule of natural or synthetic origin with those targets and to facilitate the study of the pharmacokinetics pharmacodynamics and toxicity of an active agent in suitable models and in human subjects The objective of this Research Topic is to highlight new developments and applications of imaging techniques with the objective of performing pharmacological studies in vivo in animal models and in humans In the domain of drug discovery the pharmacological and biomedical questions constitute the center of attention In this sense it is fundamental to keep in mind the strengths and limitations of each analytical or imaging technique At the end the judicious application of the technique with the aim of supporting the search for answers to manifold questions arising during a long and painstaking path provides a continuous role for imaging within the complex area of drug discovery and development

The Enigmatic Realm of Non Invasive Physiological Measurements: Unleashing the Language is Inner Magic

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