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Present Your Research to the World! The World Congress 2009 on Medical Physics and Biomedical Engineering – the triennial scientific meeting of the IUPESM - is the world's leading forum for presenting the results of current scientific work in health-related physics and technologies to an international audience. With more than 2,800 presentations it will be the biggest conference in the fields of Medical Physics and Biomedical Engineering in 2009! Medical physics, biomedical engineering and bioengineering have been driving forces of innovation and progress in medicine and healthcare over the past two decades. As new key technologies arise with significant potential to open new options in diagnostics and therapeutics, it is a multidisciplinary task to evaluate their benefit for medicine and healthcare with respect to the quality of performance and therapeutic output. Covering key aspects such as information and communication technologies, micro- and nanosystems, optics and biotechnology, the congress will serve as an inter- and multidisciplinary platform that brings together people from basic research, R&D, industry and medical application to discuss these issues. As a major event for science, medicine and technology the congress provides a comprehensive overview and in-depth, first-hand information on new developments, advanced technologies and current and future applications. With this Final Program we would like to give you an overview of the dimension of the congress and invite you to join us in Munich! Olaf Dössel Congress President Wolfgang C.

Imaging and analysis are widely involved in various research fields, including biomedical applications, medical imaging and diagnosis, computer vision, autonomous driving, and robot controls. Imaging and analysis are now facing big changes regarding intelligence, due to the breakthroughs of artificial intelligence techniques, including deep learning. Many difficulties in image generation, reconstruction, de-

noising skills, artifact removal, segmentation, detection, and control tasks are being overcome with the help of advanced artificial intelligence approaches. This Special Issue focuses on the latest developments of learning-based intelligent imaging techniques and subsequent analyses, which include photographic imaging, medical imaging, detection, segmentation, medical diagnosis, computer vision, and vision-based robot control. These latest technological developments will be shared through this Special Issue for the various researchers who are involved with imaging itself, or are using image data and analysis for their own specific purposes.

This book elucidates the morphological backgrounds of various functional parameters of the human respiratory system, including the respiratory control system, dynamics of the upper and lower airways, gas transport and mixing in the lower airways, gas exchange in the acinus, and gas transfer through the alveolar wall. Presenting the latest findings on the interrelationships between morphology and physiology in the respiratory system, the book's goal is to provide a foundation for further exploring structure-function relationships in various respiratory systems, and to improve both the quality of basic science, and that of clinical medicine targeting the human respiratory system. Edited and written by internationally recognized experts, Structure-Function Relationships in Various Respiratory Systems offers a valuable asset for all physicians and researchers engaging in clinical, physiological, or morphological work in the field of respiration. Moreover, it provides a practical guide for physicians, helping them make more precise pathophysiological decisions concerning patients with various types of lung disease, and will be of interest to respiratory physiologists and respiratory morphologists.

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Trabecular bone structure as well as bone mineral density (BMD) have impact on the biomechanical competence of bone. In osteoporosis-related fractures, there have been shown to exist disconnections in the trabecular network as well as low bone mineral density. Imaging of

bone parameters is therefore of importance in detecting osteoporosis. One available imaging device is cone-beam computed tomography (CBCT). This device is often used in pre-operative imaging of dental implants, for which the trabecular network also has great importance. Fourteen or 15 trabecular bone specimens from the radius were imaged for conducting this in vitro project. The imaging data from one dual-energy X-ray absorptiometry (DXA), two multi-slice computed tomography (MSCT), one high-resolution peripheral quantitative computed tomography (HR-pQCT) and four CBCT devices were segmented using an in-house developed code based on homogeneity thresholding. Seven trabecular microarchitecture parameters, as well as two trabecular bone stiffness parameters, were computed from the segmented data. Measurements from micro-computed tomography (micro-CT) data of the same bone specimens were regarded as gold standard. Correlations between MSCT and micro-CT data showed great variations, depending on device, imaging parameters and between the bone parameters. Only the bone-volume fraction (BV/TV) parameter was stable with strong correlations. Regarding both HR-pQCT and CBCT, the correlations to micro-CT were strong for bone structure parameters as well as bone stiffness parameters. The CBCT device 3D Accuitomo showed the strongest correlations, but overestimated BV/TV more than three times compared to micro-CT. The imaging protocol most often used in clinical imaging practice at our clinic demonstrated strong correlations as well as low radiation dose. CBCT data of trabecular bone can be used for analysing trabecular bone properties, like bone microstructure and bone biomechanics, showing strong correlations to the reference method of micro-CT. The results depend on choice of CBCT device as well as segmentation method used. The in-house developed code based on homogeneity thresholding is appropriate for CBCT data. The overestimations of BV/TV must be considered when estimating bone properties in future clinical dental implant and osteoporosis research.

The six-volume set LNCS 11764, 11765, 11766, 11767, 11768, and 11769 constitutes the refereed proceedings of the 22nd International Conference on Medical Image Computing and Computer-Assisted Intervention, MICCAI 2019, held in Shenzhen, China, in October 2019. The 539 revised full papers presented were carefully reviewed and selected from 1730 submissions in a double-blind review process. The papers are organized in the following topical sections: Part I: optical imaging; endoscopy; microscopy. Part II: image segmentation; image registration; cardiovascular imaging; growth, development, atrophy and progression. Part III: neuroimage reconstruction and synthesis; neuroimage segmentation; diffusion weighted magnetic resonance imaging; functional neuroimaging (fMRI); miscellaneous neuroimaging. Part IV: shape; prediction; detection and localization; machine learning; computer-aided diagnosis; image reconstruction and synthesis. Part V: computer assisted interventions; MIC meets CAI. Part VI: computed tomography; X-ray imaging.

This book, written for pulmonary and family doctors, general practitioners, allergologists, and neuropsychologists, presents cutting-edge clinical research and therapy-oriented knowledge in the field of respiratory medicine. Clinical knowledge is undergoing dramatic improvement. Respiration is one such prominent field. A better understanding of the pathogenesis of respiratory ailments and the regulation of lung ventilation is essential for advances in pharmacotherapy and the patient's quality of life. The book discusses a wide scope of topics, notably, innovations in detection and management of chronic inflammatory conditions such as COPD or asthma, acute infections of the respiratory tract, airway allergies and hyper-responsiveness, lung cancer, interstitial lung diseases, pulmonary function in health, disease and aging, sleep disordered breathing, interaction between the respiratory system and other bodily functions, and psychosomatic aspects of disease. After all, respiration is generated and integrated by the brain; therefore brain function is influential in respiratory regulation. The book is a platform that fosters the exchange of new clinical data between clinicians and academic neuroscientists, bringing a unique blend of medical diagnosis and practice to the leadership in respiratory medicine.

Rapid prototyping (RP) technology has been widely known and appreciated due to its flexible and customized manufacturing capabilities. The widely studied RP techniques include stereolithography apparatus (SLA), selective laser sintering (SLS), three-dimensional printing (3DP), fused deposition modeling (FDM), 3D plotting, solid ground curing (SGC), multiphase jet solidification (MJS), laminated object manufacturing (LOM). Different techniques are associated with different materials and/or processing principles and thus are devoted to specific applications. RP technology has no longer been only for prototype building rather has been extended for real industrial manufacturing solutions. Today, the RP technology has contributed to almost all engineering areas that include mechanical, materials, industrial, aerospace, electrical and most recently biomedical engineering. This book aims to present the advanced development of RP technologies in various engineering areas as the solutions to the real world engineering problems.

86 short papers originating from the 13th International Symposium on Intracranial Pressure and Brain Monitoring held in July 2007 in San Francisco present experimental as well as clinical research data on invasive and non-invasive intracranial pressure and brain biochemistry monitoring. The papers have undergone a peer-reviewing and are organized in eight sections: brain injury: ICP management and cerebral physiology; hydrocephalus and cerebrospinal fluid dynamics; advanced neuromonitoring; biomedical informatics; imaging; ICP: brain compliance, biophysics, and biomechanics; stroke, subarachnoid hemorrhage, and intracerebral hematoma; and experimental studies and models. The papers address the increasing use of decompressive craniectomy for the treatment of brain edema as well after brain

injury and the rapidly expanding field of advanced neuromonitoring and neuroimaging.

The topic of this book is the modeling of data uncertainty and knowledge for a health engineering problem such as the biomechanics of the musculoskeletal system. This is the first book on this subject. It begins with the state of the art in related topics such as data uncertainty, knowledge modeling, and the biomechanics of the musculoskeletal system, followed by fundamental and theoretical aspects of this field. Clinically relevant applications of musculoskeletal system modeling are then introduced. The book finishes with a chapter on practical software and tools for knowledge modeling and reasoning purposes.

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