

Biosystems & Biorobotics

Ana Rita Londral
Pedro Encarnação *Editors*

Advances in Neurotechnology, Electronics and Informatics

Revised Selected Papers from the 2nd
International Congress on Neurotechnology,
Electronics and Informatics (NEUROTECHNIX
2014), October 25–26, Rome, Italy

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Advances in Neurotechnology, Electronics and Informatics Ana Rita Londral, Pedro Encarnação, 2015-12-10 This book is a timely report on current neurotechnology research. It presents a snapshot of the state of the art in the field, discusses current challenges, and identifies new directions. The book includes a selection of extended and revised contributions presented at the 2nd International Congress on Neurotechnology Electronics and Informatics NEUROTECHNIX 2014 held October 25-26 in Rome, Italy. The chapters are varied: some report on novel theoretical methods for studying neuronal connectivity or neural system behaviour; others report on advanced technologies developed for similar purposes, while further contributions concern new engineering methods and technological tools supporting medical diagnosis and neurorehabilitation. All in all, this book provides graduate students, researchers, and practitioners dealing with different aspects of neurotechnologies with a unified view of the field, thus fostering new ideas and research collaborations among groups from different disciplines.

Contemporary Applications of Data Fusion for Advanced Healthcare Informatics Karthick, G.S., Karupusamy, Sathishkumar, 2023-08-01 Blockchain and artificial intelligence (AI) techniques play a crucial role in dealing with large amounts of heterogeneous multi-scale and multi-modal data coming from the Internet of Things (IoT) infrastructures. Therefore, further discussion on how the fusion of blockchain, IoT, and AI allows the design of models, mathematical models, methodologies, algorithms, evaluation benchmarks, and tools to address challenging problems related to health informatics, healthcare, and wellbeing is required. Contemporary Applications of Data Fusion for Advanced Healthcare Informatics covers the integration of IoT and AI to tackle applications in smart healthcare and discusses the efficient means to collect, monitor, control, optimize, model, and predict healthcare data using blockchain, AI, and IoT. The book also considers the advantages and improvements in the smart healthcare field in which ubiquitous computing and traditional computational methods alone are often inadequate. Covering key topics such as disruptive technology, electronic health records, and medical data, this premier reference source is ideal for computer scientists, nurses, doctors, industry professionals, researchers, academicians, scholars, practitioners, instructors, and students.

Neurotechnology, Electronics, and Informatics Ana Rita Londral, Pedro Encarnação, José Luis Pons Rovira, 2015-07-15 The International Congress on Neurotechnology Electronics and Informatics NEUROTECHNIX took place in Algarve, Portugal, in September of 2013. The congress provided a meeting point of academics and clinical and engineering professionals promoting translational discussions on how research and technology can meet the needs of clinical practitioners and patients. NEUROTECHNIX emphasized research and application of neurotechnologies to various neurological disorders, including neuromuscular diseases, Parkinson's disease, developmental disorders, dementia, epilepsy, sleep disorders, Multiple Sclerosis, neuroinfections, brain tumors, stroke, traumatic brain injuries, Cerebral Palsy, spinal cord injury, and vision and hearing disorders. Authors were invited to submit innovative research work that highlighted new advancements of neurotechnology. Papers describing case studies, advanced prototypes, systems, tools, and techniques, and

general survey papers indicating future directions were encouraged This book contains a limited selection of extended and revised versions of the best papers presented at the congress by regular and keynote speakers Proceedings of the 2nd International Congress on Neurotechnology, Electronics and Informatics, Rome, Italy, 25 - 26 October, 2014 Ana Rita Londral,2014 *Neurotechnology* Victor Hugo C. de Albuquerque,Alkinoos Athanasiou,Sidarta Ribeiro,2020-05-18 This book focuses on recent advances and future trends in the methods and applications of technologies that are used in neuroscience for the evaluation diagnosis and treatment of neurological diseases and conditions or for the improvement of quality of life The editors have assembled contributions from a range of international experts to bring together key topics in neurotechnology neuroengineering and neurorehabilitation The book explores biomedical signal processing neuroimaging acquisition and analysis computational intelligence virtual and augmented reality biometrics machine learning and neurorobotics human machine interaction mobile apps and discusses ways in which these neural technologies can be used as diagnostic tools research methods treatment modalities as well as in devices and apps in everyday life

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