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Titolo	Recent Progress in Brain and Cognitive Engineering // edited by Seong-Whan Lee, Heinrich H. Bülthoff, Klaus-Robert Müller
Pubbl/distr/stampa	Dordrecht : , : Springer Netherlands : , : Imprint : Springer, , 2015
ISBN	94-017-7239-8
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (218 p.)
Collana	Trends in Augmentation of Human Performance, , 2213-1329 ; ; 5
Disciplina	616.980213
Soggetti	Neurosciences Bioinformatics Neuroscience Computational and Systems Biology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Part I. Non-invasive Brain-Computer Interface -- Chapter 1. Future directions for brain-machine interfacing technology -- Chapter 2. Brain-Computer Interface for Smart Vehicle: Detection of Braking Intention during Simulated Driving -- Chapter 3. Benefits and limits of multimodal neuroimaging for Brain Computer Interfaces -- Chapter 4. Multifrequency Analysis of Brain-Computer Interfaces -- Part II. Cognitive- and Neural-rehabilitation Engineering -- Chapter 5. Current Trends in Memory Implantation and Rehabilitation -- Chapter 6. Moving Brain Controlled Devices Outside the Lab: Principles and Applications -- Part III. Big Data Neurocomputing -- Chapter 7. Across cultures: a Cognitive and Computational Analysis of Emotional and Conversational Facial Expressions in Germany and Korea -- Chapter 8. Bottom-Up Processing in Complex Scenes: a unifying perspective on segmentation, fixation saliency, candidate regions, base-detail decomposition, and image enhancement -- Chapter 9. Perception-based motioncueing: a Cybernetics approach to motion simulation -- Chapter 10. The other-race effect revisited: no effect for faces varying in race only -- Part IV. Early Diagnosis and Prediction of Neural Diseases -- Chapter 11. Functional neuromonitoring in acquired head injury -- Chapter 12. Diagnostic Optical Imaging Technology and its Principles -- Chapter 13. Detection of Brain Metastases using Magnetic

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Sommario/riassunto

Brain and Cognitive Engineering is a converging study field to derive a better understanding of cognitive information processing in the human brain, to develop “human-like” and neuromorphic artificial intelligent systems and to help predict and analyze brain-related diseases. The key concept of Brain and Cognitive Engineering is to understand the Brain, to interface the Brain, and to engineer the Brain. It could help us to understand the structure and the key principles of high-order information processing on how the brain works, to develop interface technologies between a brain and external devices and to develop artificial systems that can ultimately mimic human brain functions. The convergence of behavioral, neuroscience and engineering research could lead us to advance health informatics and personal learning, to enhance virtual reality and healthcare systems, and to “reverse engineer” some brain functions and build cognitive robots. In this book, four different recent research directions are presented: Non-invasive Brain-Computer Interfaces, Cognitive- and Neural-rehabilitation Engineering, Big Data Neurocomputing, Early Diagnosis and Prediction of Neural Diseases. We cover numerous topics ranging from smart vehicles and online EEG analysis, neuroimaging for Brain-Computer Interfaces, memory implantation and rehabilitation, big data computing in cultural aspects and cybernetics to brain disorder detection. Hopefully this will provide a valuable reference for researchers in medicine, biomedical engineering, in industry and academia for their further investigations and be inspiring to those who seek the foundations to improve techniques and understanding of the Brain and Cognitive Engineering research field.

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2. Record Nr.	UNISANNIOIEI0079572
Autore	Comitato nazionale per la bioetica
Titolo	Problemi della raccolta e trattamento del liquido seminale umano per finalità diagnostiche / Comitato nazionale per la bioetica
Pubbl/distr/stampa	[Roma], : Presidenza del Consiglio dei ministri, Dipartimento per l'informazione e l'editoria, [1991]
Descrizione fisica	25 p. ; 24 cm
Collana	Società e istituzioni
Disciplina	174.9574 176
Soggetti	Bioetica
Collocazione	D (AR) 13 222
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Documento approvato in data 29/04/1991.