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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Recent Advances in Brain-Computer Interface Research - Projects Nominated for the BCI Award 2012 -- Brainatic: A system for real-time epileptic seizure prediction -- Combining Brain-Computer Interfaces and Haptics: Detecting Mental Workload to Adapt Haptic Assistance -- Reading Visual Braille with a Retinal Prosthesis -- Ear-EEG: User- Centered and Wearable BCI -- A novel brain-computer interface for chronic stroke patients -- Volitional control of neural connectivity -- Improving the Efficacy of Ipsilesional Brain-Computer Interface Training in Neurorehabilitation of Chronic Stroke -- Event-related desynchronization by hand motor imagery is associated with corticospinal excitability: Physiological evidence for BCI based neurorehabilitation.

Sommario/riassunto

This book reports on the latest research and developments in the field of brain-computer interfaces (BCIs). It introduces ten outstanding and innovative BCI projects, nominated as finalists for the BCI award 2012 by a jury of established researchers, and discusses how each of the nominated projects reflects general worldwide trends in BCI development. At the core of the book, nine of these ten projects are described in detailed individual chapters. These include a focused introduction to each project, an easy to grasp description of the methods, and a timely report on the most recent developments achieved since the submission to the award. Hence, this book provides a cutting-edge overview of the newest BCI research trends, from leading experts, in an easy to read format supported by explanatory pictures, graphs, and figures. .
