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Nota di contenuto	Brain-Computer Interface Research: A State-of-the-Art Summary -- Gold Standard for epilepsy/tumor surgery coupled with deep learning offers independence to a promising functional mapping modality -- Online adaptive synchronous BCI system with attention variations -- Using a BCI prosthetic hand to control phantom limb pain -- Restoration of finger and arm movements using hybrid brain/neural assistive technology in everyday life environments -- Rethinking BCI Paradigm and Machine Learning Algorithm as a Symbiosis: Zero Calibration, Guaranteed Convergence and High Decoding Performance. -Targeted up-conditioning of contralesional corticospinal pathways promotes motor recovery in poststroke patients with severe chronic hemiplegia -- Targeted up-conditioning of contralesional corticospinal pathways promotes motor recovery in poststroke patients with severe

chronic hemiplegia -- High Performance BCI in Controlling an Avatar
Using the Missing Hand Representation in Long Term Amputees -- Can
BCI paradigms induce feelings of agency and responsibility
overmovements? -- Recent Advances in Brain-Computer Interface
Research - A Summary of the 2017 BCI Award and BCI Research Trends.

Sommario/riassunto

Each year, the Annual BCI Research Award recognizes the top new projects in brain-computer interface (BCI) research. This book contains summaries of these projects from the 2017 BCI Research Award. Each chapter is written by the group that submitted the BCI project that was nominated, and introduction and discussion chapters provide supporting information and explore trends that are reflected in the annual awards each year. One of the prominent trends in recent years has been BCIs for new patient groups, and many chapters in this book present emerging research directions that might become more prevalent in the near future. .
