1. Record Nr.   UNINA9910709754703321

   Autore   Gast Ilene F.

   Titolo   Investigation of psychomotor and spatial abilities in simulated air
                       defense engagements / / Ilene F. Gast and David M. Johnson

   Pubbl/distr/stampa Alexandria, Virginia : , : U.S. Army Research Institute for the Behavioral
                       and Social Sciences
                       [Washington, D.C.] : , : Office, Deputy Chief of Staff for Personnel,
                       Department of the Army, , September 1990

   Descrizione fisica 1 online resource (x, 32 pages) : illustrations

   Collana   Technical report ; ; 912

   Soggetti   Air defenses - United States - Psychological aspects
                       Air defenses - Ability testing - United States
                       Spatial ability - United States - Testing
                       Motor ability - United States - Testing
                       Motor ability - Testing
                       Technical reports.
                       United States

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Note generali   "September 1990."
                       "Army Project Number 2Q263007A792."
                       "Performing Organization: U.S. Army Research Institute for the
                       Behavioral and Social Sciences"--Report documentation page.

   Nota di bibliografia   Includes bibliographical references (pages 31-32).

2. **Record Nr.** UNINA9910689447203321

   Titolo The Philippines : present political status and its role in the new Asia : hearing before the Subcommittee on East Asian and Pacific Affairs of the Committee on Foreign Relations, United States Senate, One Hundred Seventh Congress, first session, March 6, 2001

   Descrizione fisica 1 online resource (iii, 39 p.)

   Disciplina 959.904/8

   Soggetti Philippines Politics and government 1986-
   Philippines Economic conditions 1986-
   United States Foreign relations Philippines
   Philippines Foreign relations United States

   Lingua di pubblicazione Inglese

   Formato Materiale a stampa

   Livello bibliografico Monografia

3. **Record Nr.** UNINA9910346737903321

   Autore Timothee Levi

   Titolo Closed-Loop Systems for Next-Generation Neuroprostheses

   Pubbl/distr/stampa Frontiers Media SA, 2018

   Descrizione fisica 1 online resource (326 p.)

   Collana Frontiers Research Topics

   Soggetti Medicine

   Lingua di pubblicazione Inglese

   Formato Materiale a stampa

   Livello bibliografico Monografia

   Sommario/riassunto Millions of people worldwide are affected by neurological disorders which disrupt the connections within the brain and between brain and body causing impairments of primary functions and paralysis. Such a

number is likely to increase in the next years and current assistive technology is yet limited. A possible response to such disabilities, offered by the neuroscience community, is given by Brain-Machine Interfaces (BMIs) and neuroprostheses. The latter field of research is highly multidisciplinary, since it involves very different and disperse scientific communities, making it fundamental to create connections and to join research efforts. Indeed, the design and development of neuroprosthetic devices span/involve different research topics such as: interfacing of neural systems at different levels of architectural complexity (from in vitro neuronal ensembles to human brain), bio-artificial interfaces for stimulation (e.g. micro-stimulation, DBS: Deep Brain Stimulation) and recording (e.g. EMG: Electromyography, EEG: Electroencephalography, LFP: Local Field Potential), innovative signal processing tools for coding and decoding of neural activity, biomimetic artificial Spiking Neural Networks (SNN) and neural network modeling. In order to develop functional communication with the nervous system and to create a new generation of neuroprostheses, the study of closed-loop systems is mandatory. It has been widely recognized that closed-loop neuroprosthetic systems achieve more favorable outcomes for users then equivalent open-loop devices. Improvements in task performance, usability, and embodiment have all been reported in systems utilizing some form of feedback. The bi-directional communication between living neurons and artificial devices is the main final goal of those studies. However, closed-loop systems are still uncommon in the literature, mostly due to requirement of multidisciplinary effort. Therefore, through eBook on closed-loop systems for next-generation neuroprostheses, we encourage an active discussion among neurobiologists, electrophysiologists, bioengineers, computational neuroscientists and neuromorphic engineers. This eBook aims to facilitate this process by ordering the 25 contributions of this research in which we highlighted in three different parts: (A) Optimization of different blocks composing the closed-loop system, (B) Systems for neuromodulation based on DBS, EMG and SNN and (C) Closed-loop BMIs for rehabilitation.