1. Record Nr. UNINA9910702296003321

Autore	Abercromby Andrew F. J.
Titolo	Desert research and technology studies (DRATS) 2009 : a 14-day evaluation of the space exploration vehicle prototype in a lunar analog environment / / Andrew F.J. Abercromby, Michael L. Gernhardt, Harry Litaker
Pubbl/distr/stampa	Houston, Texas, : National Aeronautics and Space Administration, Lyndon B. Johnson Space Center, May 2012
Descrizione fisica	1 online resource (viii, 128 pages) : color illustrations
Collana	NASA/TP ; ; 2012-217360
Soggetti	Constellation program Human factors engineering Lunar environment Manned space flight Extravehicular activity
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from title screen (viewed on Aug. 28, 2015). "May 2012."
Nota di bibliografia	Includes bibliographical references (page 101).

2. Record Nr. UNINA9910619469903321

Autore	Kang Nyeonju
Titolo	New Trends in Neuromechanics and Motor Rehabilitation
Pubbl/distr/stampa	MDPI - Multidisciplinary Digital Publishing Institute, 2022
ISBN	3-0365-5178-6
Descrizione fisica	1 online resource (128 p.)
Soggetti	Public health and preventive medicine
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Neuromechanics has been used to identify optimal rehabilitation protocols that successfully improve motor deficits in various populations, such as elderly people and individuals with neurological diseases (e.g., stroke, Parkinson's disease, and essential tremor). By investigating structural and functional changes in the central and peripheral nervous systems based on neuromechanical theories and findings, we can expand our knowledge regarding underlying neurophysiological mechanisms and specific motor impairment patterns before and after therapies to further develop new training programs (e.g., non-invasive brain stimulation). Thus, the aim of this Special Issue is to present the main contributions of researchers and rehabilitation specialists in biomechanics, motor control, neurophysiology, neuroscience, and rehabilitation science. The current collection provides new neuromechanical approaches addressing theoretical, methodological, and practical topics for facilitating motor recovery progress.

3.

Record Nr.	UNINA9910557764403321
Autore	Ardigo Luca Paolo
Titolo	Biomechanics Energetics of Natural Assisted Human Comparative Movement Locomotion
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2021
Descrizione fisica	1 online resource (68 p.)
Soggetti	Biology, life sciences Research and information: general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Movement and locomotion have always been key activities for all animals, being related to the most crucial life functions: retrieving food, facing environmental issues and mating. Humans developed complex upper arms movements and bipedal gaits in order to move and locomote. To enhance their performance, they started inventing smart passive mechanical tools. This need arose from intrinsic limitations of their muscle-joint-bone systems and metabolic power availability. Newly invented devices were mainly introduced in order to cope with such constraints. The aim of this Special Issue is to advance knowledge regarding symmetry, biomechanics and energetics of passively assisted human movement and locomotion.