1. Record Nr. UNINA9910137204603321

Autore	Andrey R. Nikolaev
Titolo	Eye movement-related brain activity during perceptual and cognitive processing / / topic editors Andrey R. Nikolaev, Sebastian Pannasch, Junji Ito and Artem Belopolsky
Pubbl/distr/stampa	Frontiers Media SA, 2014 Switzerland : , : Frontiers Media SA, , 2014
ISBN	9782889192731 (ebook)
Descrizione fisica	1 online resource (196 pages) : illustrations
Collana	Frontiers Research Topics
Disciplina	612.8/4
Soggetti	Neuroscience Human Anatomy & Physiology Health & Biological Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references.
Sommario/riassunto	The recording and analysis of electrical brain activity associated with eye movements has a history of several decades. While the early attempts were primarily focused on uncovering the brain mechanisms of eye movements, more recent approaches use eye movements as markers of the ongoing brain activity to investigate perceptual and cognitive processes. This recent approach of segmenting brain activity based on eye movement behavior has several important advantages. First, the eye movement system is closely related to cognitive functions such as perception, attention and memory. This is not surprising since eye movements provide the easiest and the most accurate way to extract information from our visual environment and the eye movement system largely determines what information is selected for further processing. The eye movement-based segmentation offers a great way to study brain activity in relation to these processes. Second, on the methodological level, eye movements constitute a natural marker to segment the ongoing brain activity. This overcomes the problem of introducing artificial markers such as ones for stimulus presentation or response execution that are typical for a lab-based research. This

	opens possibilities to study brain activity during self-paced perceptual and cognitive behavior under naturalistic conditions such as free exploration of scenes. Third, by relating eye movement behavior to the ongoing brain activity it is possible to see how perceptual and cognitive processes unfold in time, being able to predict how brain activity eventually leads to behavior. This research topic illustrates advantages of the combined recording and analysis of eye movements and neural signals such as EEG, local field potentials and fMRI for investigation of the brain processes in humans and animals. The contributions include research papers, methodology papers and reviews demonstrating conceptual and methodological achievements in this rapidly developing field.

2. Record Nr. UNINA9910135448703321

Titolo	ANSI Std C63.14-2009 : American National Standard Dictionary of Electromagnetic Compatibility (EMC) including Electromagnetic Environmental Effects (E3) / / Institute of Electrical and Electronics Engineers
Pubbl/distr/stampa	New York, NY, USA : , : IEEE, , 2009
ISBN	0-7381-6034-2
Descrizione fisica	1 online resource (viii, 46 pages) : illustrations
Collana	IEEE Std
Disciplina	621.38411
Soggetti	Electromagnetic compatibility Radio - Interference
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Terms associated with electromagnetic compatibility (EMC) and electromagnetic environmental effects (E3) are defined in this standard, including electromagnetic pulse (EMP), and electrostatic discharge (ESD) terms. Quantities, units, multiplying factors, symbols, and abbreviations are covered.

3. Record Nr. UNINA9910144989303321

Titolo	Journal of advances in modeling earth systems
Pubbl/distr/stampa	Calverton, MD, : Institute of Global Environment and Society, 2009- Washington, DC, : American Geophysical Union Malden, MA, : Wiley-Blackwell
Descrizione fisica	1 online resource
Disciplina	551.5
Soggetti	Geological modeling Climatology Geochemical modeling Earth & Atmospheric Sciences Simulation Methods & Models Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed
Sommario/riassunto	"JAMES publishes research related to a wide range of problems in climate science, including atmospheric and oceanic circulations on multiple scales, radiation, cloud physics, boundary layer and land surface processes, the biosphere and cryosphere, biogeochemical cycles, and the development of numerical methods, model parameterizations, and data assimilation methods for Earth systems modeling. JAMES promotes interdisciplinary research, disseminates information to the global community, and informs the general public and decision makers of the science behind climate and Earth systems modeling."