

1. Record Nr.	UNISALENTO991003323529707536
Autore	Veltman, Martinus J.G.
Titolo	Facts and mysteries in elementary particle physics / Martinus J.G. Veltman
Pubbl/distr/stampa	River Edge, NJ : World Scientific Publ., c2003
ISBN	9789812381491
Descrizione fisica	viii, 340 p. : ill. ; 23 cm
Classificazione	LC QC793.2
Disciplina	539.72
Soggetti	Particles (Nuclear physics)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index

2. Record Nr.	UNINA9910137097103321
Autore	Anne-Marie Brouwer
Titolo	Using neurophysiological signals that reflect cognitive or affective state // edited by: Anne-Marie Brouwer, Thorsten O. Zander and Jan B. F. van Erp
Pubbl/distr/stampa	Frontiers Media SA, 2015 [Lausanne, Switzerland] : , : Frontiers Media SA, , 2015 ©2015
ISBN	9782889196135
Descrizione fisica	1 online resource (314 pages) : illustrations; digital file(s)
Collana	Frontiers Research Topics Frontiers in Neuroscience
Disciplina	612.82
Soggetti	Neurophysiology Neuropsychiatry Brain-computer interfaces Neurosciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Nota di bibliografia	Includes bibliographical references.
Sommario/riassunto	What can we learn from spontaneously occurring brain and other physiological signals about an individual's cognitive and affective state and how can we make use of this information? One line of research that is actively involved with this question is Passive Brain-Computer-Interfaces (BCI). To date most BCIs are aimed at assisting patients for whom brain signals could form an alternative output channel as opposed to more common human output channels, like speech and moving the hands. However, brain signals (possibly in combination with other physiological signals) also form an output channel above and beyond the more usual ones: they can potentially provide continuous, online information about an individual's cognitive and affective state without the need of conscious or effortful communication. The provided information could be used in a number of ways. Examples include monitoring cognitive workload through EEG and skin conductance for adaptive automation or using ERPs in response to

errors to correct for a behavioral response. While Passive BCIs make use of online (neuro)physiological responses and close the interaction cycle between a user and a computer system, (neuro)physiological responses can also be used in an offline fashion. Examples of this include detecting amygdala responses for neuromarketing, and measuring EEG and pupil dilation as indicators of mental effort for optimizing information systems. The described field of applied (neuro)physiology can strongly benefit from high quality scientific studies that control for confounding factors and use proper comparison conditions. Another area of relevance is ethics, ranging from dubious product claims, acceptance of the technology by the general public, privacy of users, to possible effects that these kinds of applications may have on society as a whole.

3. Record Nr.	UNINA9910134835103321
Titolo	BMC structural biology
Pubbl/distr/stampa	London : , : BioMed Central, , 2001-2019
ISSN	1472-6807
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico

Note generali

Refereed/Peer-reviewed

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