# Brain-Computer Interfaces

An International Assessment of Research and Development Trends

by

Theodore W. Berger, John K. Chapin, Greg A. Gerhardt, Dennis J. McFarland, José C. Principe, Walid V. Soussou, Dawn M. Taylor and Patrick A. Tresco



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Robert M. Nerem, Jeanne Loring, Todd C. McDevitt, Sean P. Palecek, David V. Schaffer, Peter W. Zandstra

Brain-Computer Interfaces Theodore W. Berger, John K. Chapin, Greg A. Gerhardt, Dennis J. McFarland, Jose C. Principe, Walid V. Soussou, Dawn M. Taylor, Patrick A. Tresco, 2008-09-18 We have come to know that our ability to survive and grow as a nation to a very large degree depends upon our scientific progress Moreover it is not enough simply to keep 1 abreast of the rest of the world in scientific matters We must maintain our leadership President Harry Truman spoke those words in 1950 in the aftermath of World War II and in the midst of the Cold War Indeed the scientific and engineering leadership of the United States and its allies in the twentieth century played key roles in the successful outcomes of both World War II and the Cold War sparing the world the twin horrors of fascism and totalitarian communism and fueling the economic prosperity that followed Today as the United States and its allies once again find themselves at war President Truman's words ring as true as they did a half century ago The goal set out in the Truman Administration of maintaining leadership in science has remained the policy of the U S Government to this day Dr John Marburger the Director of the Office of Science and Technology OSTP in the Executive Office of the President made remarks to that effect during his 2 confirmation hearings in October 2001 The United States needs metrics for measuring its success in meeting this goal of maintaining leadership in science and technology That is one of the reasons that the National Science Foundation NSF and many other agencies of the US Brain-Computer Interface Research Christoph Guger, Gernot Müller-Putz, Brendan Allison, 2015-12-12 This book describes ten of the most promising brain computer interface BCI projects to have emerged in recent years BCI research is developing guickly with many new ideas research groups and improved technologies BCIs enable people to communicate just by thinking without any movement at all Several different groups have helped severely disabled users communicate with BCIs and BCI technology is also being extended to facilitate recovery from stroke epilepsy and other conditions Each year hundreds of the top BCI scientists engineers doctors and other visionaries compete for the most prestigious honor in the BCI research community the annual BCI Award The 2014 BCI Award competition was again competitive with 69 research groups vying for a nomination This book summarizes the 2014 BCI Award including the ten projects that were nominated the winner and analyses and discussions of the submitted projects and how they reflect general trends in BCI development Each of these ten groups provides a chapter summarizing their nominated project including an introduction description of methods results and newer work completed after the project was submitted Hence this book provides a cutting edge overview of the newest BCI research trends from top groups in an easy to read format with numerous supporting pictures graphs and figures **Brain-Computer Interfaces** Jonathan Wolpaw, Elizabeth Winter Wolpaw, 2012-01-24 A recognizable surge in the field of Brain Computer Interface BCI research and development has emerged in the past two decades This book is intended to provide an introduction to and summary of essentially all major aspects of BCI research and development Its goal is to be a comprehensive balanced and coordinated presentation of the

field s key principles current practice and future prospects Recent Advances in Brain-Computer Interface Systems Reza Fazel-Rezai, 2011-02-04 Brain Computer Interface BCI technology provides a direct electronic interface and can convey messages and commands directly from the human brain to a computer BCI technology involves monitoring conscious brain electrical activity via electroencephalogram EEG signals and detecting characteristics of EEG patterns via digital signal processing algorithms that the user generates to communicate It has the potential to enable the physically disabled to perform many activities thus improving their quality of life and productivity allowing them more independence and reducing social costs The challenge with BCI however is to extract the relevant patterns from the EEG signals produced by the brain each second Recently there has been a great progress in the development of novel paradigms for EEG signal recording advanced methods for processing them new applications for BCI systems and complete software and hardware packages used for BCI applications In this book a few recent advances in these areas are discussed Proceedings of the International Conference on Advanced Intelligent Systems and Informatics 2016 Aboul Ella Hassanien, Khaled Shaalan, Tarek Gaber, Ahmad Taher Azar, M. F. Tolba, 2016-10-20 This book gathers the proceedings of the 2nd International Conference on Advanced Intelligent Systems and Informatics AISI2016 which took place in Cairo Egypt during October 24 26 2016 This international interdisciplinary conference which highlighted essential research and developments in the field of informatics and intelligent systems was organized by the Scientific Research Group in Egypt SRGE and sponsored by the IEEE Computational Intelligence Society Egypt chapter and the IEEE Robotics and Automation Society Egypt Chapter The book s content is divided into four main sections Intelligent Language Processing Intelligent Systems Intelligent Robotics Systems and Informatics Stem Cell Engineering Robert M. Nerem, Jeanne Loring, Todd C. McDevitt, Sean P. Palecek, David V. Schaffer, Peter W. Zandstra, 2014-06-12 This book describes a global assessment of stem cell engineering research achieved through site visits by a panel of experts to leading institutes followed by dedicated workshops The assessment made clear that engineers and the engineering approach with its quantitative system based thinking can contribute much to the progress of stem cell research and development The increased need for complex computational models and new innovative technologies such as high throughput screening techniques organ on a chip models and in vitro tumor models require an increasing involvement of engineers and physical scientists Additionally this book will show that although the US is still in a leadership position in stem cell engineering Asian countries such as Japan China and Korea as well as European countries like the UK Germany Sweden and the Netherlands are rapidly expanding their investments in the field Strategic partnerships between countries could lead to major advances of the field and scalable expansion and differentiation of stem cells This study was funded by the National Science Foundation NSF the National Institutes of Health NIH and the National Institute of Standards and Technology NIST **Brain-Computer Interfaces** Theodore W. Berger, John K. Chapin, Greg A. Gerhardt, Dennis J. McFarland, Jose C. Principe, Walid V. Soussou, Dawn M. Taylor, Patrick A. Tresco, 2010-10-19 We have come

to know that our ability to survive and grow as a nation to a very large degree depends upon our scientific progress Moreover it is not enough simply to keep 1 abreast of the rest of the world in scientific matters. We must maintain our leadership President Harry Truman spoke those words in 1950 in the aftermath of World War II and in the midst of the Cold War Indeed the scientific and engineering leadership of the United States and its allies in the twentieth century played key roles in the successful outcomes of both World War II and the Cold War sparing the world the twin horrors of fascism and totalitarian communism and fueling the economic prosperity that followed Today as the United States and its allies once again find themselves at war President Truman's words ring as true as they did a half century ago The goal set out in the Truman Administration of maintaining leadership in science has remained the policy of the U S Government to this day Dr John Marburger the Director of the Office of Science and Technology OSTP in the Executive Office of the President made remarks to that effect during his 2 confirmation hearings in October 2001 The United States needs metrics for measuring its success in meeting this goal of maintaining leadership in science and technology That is one of the reasons that the National Science Foundation NSF and many other agencies of the U S Recent Advances on the Modular Organization of the Cortex Manuel F. Casanova, Ioan Opris, 2015-06-22 The way you perceive the world plan make decisions and communicate your thoughts and feelings depends on the function and hierarchical arrangement of cortical modules The ability to both provide adaptive responses to our ever changing environment and to pursue a useful role in society is the most important problem faced by present day neuroscientists In essence the workings of cortical modules define the nature of our soul making each of us who we are This book provides a breath taking view of different perspectives by world renowned authorities as to the workings of these cortical modules both in the normal state and in mental disorders Superintelligence Nick Bostrom, 2014-07-03 The human brain has some capabilities that the brains of other animals lack It is to these distinctive capabilities that our species owes its dominant position Other animals have stronger muscles or sharper claws but we have cleverer brains If machine brains one day come to surpass human brains in general intelligence then this new superintelligence could become very powerful As the fate of the gorillas now depends more on us humans than on the gorillas themselves so the fate of our species then would come to depend on the actions of the machine superintelligence But we have one advantage we get to make the first move Will it be possible to construct a seed AI or otherwise to engineer initial conditions so as to make an intelligence explosion survivable How could one achieve a controlled detonation To get closer to an answer to this question we must make our way through a fascinating landscape of topics and considerations Read the book and learn about oracles genies singletons about boxing methods tripwires and mind crime about humanity s cosmic endowment and differential technological development indirect normativity instrumental convergence whole brain emulation and technology couplings Malthusian economics and dystopian evolution artificial intelligence and biological cognitive enhancement and collective intelligence This profoundly ambitious and original book picks its way carefully through a vast tract of forbiddingly difficult

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