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Brain and Behavior | Psychology Today

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The brain is made up of many specialized areas that work together:

- The cortex is the outermost layer of brain cells. Thinking and voluntary movements begin in the cortex.
- The brain stem is...

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The epithalamus serves as a connection between the limbic system and other parts of the brain. The limbic system is a part of the brain that's involved with emotion, long-term memory, and behavior....

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The author adopts a reader-friendly writing style and excellent use of examples to present daunting material in a way students will find exciting instead of burdensome. The text focuses attention on behavior (in preference to physiological mechanisms) and practical human implications, which are reinforced with frequent examples and case studies that keep students engaged in the learning process. Technical details are limited where possible and retained with careful explanations where they enhance

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Drawing on their extensive experience in teaching and research, the authors explore the biological basis of behaviour, whilst emphasising clinical aspects of neuroscience and reinforcing its relationship to the human experience.

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Brain and Behavior Computing offers insights into the functions of the human brain. This book provides an emphasis on brain and behavior computing with different modalities available such as signal processing, image processing, data sciences, statistics further it includes fundamental, mathematical model, algorithms, case studies, and future research scopes. It further illustrates brain signal sources and how the brain signal can process, manipulate, and transform in different domains allowing researchers and professionals to extract information about the physiological condition of the brain.

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Emphasizes real challenges in brain signal processing for a variety of applications for analysis, classification, and clustering. Discusses data sciences and its applications in brain computing visualization. Covers all the most recent tools for analysing the brain and it's working. Describes brain modeling and all possible machine learning methods and their uses. Augments the use of data mining and machine learning to brain computer interface (BCI) devices. Includes case studies and actual simulation examples. This book is aimed at researchers, professionals, and graduate students in image processing and

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Computer vision, biomedical engineering, signal processing, and brain and behavior computing.

A comprehensive Introduction to the world of brain and behavior computational models This book provides a broad collection of articles covering different aspects of computational modeling efforts in psychology and neuroscience. Specifically, it discusses models that span different brain regions (hippocampus, amygdala, basal ganglia, visual cortex), different species (humans, rats, fruit flies), and different modeling methods

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epilepsy; early sensory and perceptual processes; models of olfaction; higher/systems level models and low-level models; Pavlovian and instrumental conditioning; linking information theory to neurobiology; and more. Covers computational approximations to intellectual disability in down syndrome Discusses computational models of pharmacological and immunological treatment in Alzheimer's disease Examines neural circuit models of serotonergic system (from microcircuits to cognition) Educates on information theory, memory, prediction, and timing in associative learning Computational

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- new definitions and thinking about abuse and dependence
- the medical and forensic

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