

W.R. Klemm

Atoms of Mind

The "Ghost in the Machine" Materializes



Springer

Atoms Of Mind The Ghost In The Machine Materializes

Yi-Tong Ma



Atoms Of Mind The Ghost In The Machine Materializes:

Atoms of Mind W. R. Klemm, 2011-04-01 Atoms of Mind W.R. Klemm, 2011-04-20 This book describes the author's view of how the mind thinks at various levels of operation. These levels include nonconscious mind as in spinal brainstem reflexes and neuroendocrine controls, subconscious mind, and conscious mind. In the attempt to explain conscious mind, there is considerable critique of arguments over whether or not free will is an illusion. Finally, the author summarizes current leading theories for consciousness: Bayesian probability, chaos, and quantum mechanics, and then presents his own theory based on patterns of nerve impulses in circuits that are interlaced coherently into larger networks.

Cognitive Modeling of Human Memory and Learning Lidia Ghosh, Amit Konar, Pratyusha Rakshit, 2020-08-21 Proposes computational models of human memory and learning using a brain-computer interfacing (BCI) approach. Human memory modeling is important from two perspectives. First, the precise fitting of the model to an individual's short-term or working memory may help in predicting memory performance of the subject in the future. Second, memory models provide a biological insight into the encoding and recall mechanisms undertaken by the neurons present in active brain lobes participating in the memorization process. This book models human memory from a cognitive standpoint by utilizing brain activations acquired from the cortex by electroencephalographic (EEG) and functional near-infrared spectroscopic (fNIRS) means.

Cognitive Modeling of Human Memory and Learning: A Non-invasive Brain-Computer Interfacing Approach begins with an overview of the early models of memory. The authors then propose a simplistic model of Working Memory (WM) built with fuzzy Hebbian learning. A second perspective of memory models is concerned with Short-Term Memory (STM) modeling in the context of 2-dimensional object shape reconstruction from visually examined memorized instances. A third model assesses the subjective motor learning skill in driving from erroneous motor actions. Other models introduce a novel strategy of designing a two-layered deep Long Short-Term Memory (LSTM) classifier network and also deal with cognitive load assessment in motor learning tasks associated with driving. The book ends with concluding remarks based on principles and experimental results acquired in previous chapters.

Examines the scope of computational models of memory and learning with special emphasis on classification of memory tasks by deep learning-based models. Proposes two algorithms of type-2 fuzzy reasoning: Interval Type-2 fuzzy reasoning (IT2FR) and General Type-2 Fuzzy Sets (GT2FS). Considers three classes of cognitive loads in the motor learning tasks for driving learners.

Cognitive Modeling of Human Memory and Learning: A Non-invasive Brain-Computer Interfacing Approach will appeal to researchers in cognitive neuroscience and human brain-computer interfaces. It is also beneficial to graduate students of computer science, electrical, and electronic engineering.

Making a Scientific Case for Conscious Agency and Free Will William R. Klemm, 2016-02-11 Making a Scientific Case for Conscious Agency and Free Will makes a series of arguments that certain human behaviors are impossible to explain in the absence of free will and that free will emerges from materialistic processes of brain function. It outlines future directions for neuroscience studies that can harness emerging technologies and

tools for systems level analysis All humans have the sensation that they consciously will certain things to happen and that in the absence of external constraints they are free to choose from among alternatives This notion of free will is deemed obvious by the average person based on common experience Free will is frequently defended with arguments stemming from social legal philosophical and religious perspectives But these arguments appeal to consequences not causes of choices and decisions In the past 3 decades debate has raged within the scientific community over whether free will is in fact an illusion Because free will would require conscious agency the supporting corollary is that consciousness itself cannot do anything and is merely an observer rather than an actor Considers arguments for and against free will from religious social legal and neuroscience perspectives Provides thorough coverage of the manifold human behaviors that can be explained only by free will from consciousness to creativity Outlines future directions for further neuroscience research into the topic

Constraints of Agency Craig W. Gruber, Matthew G. Clark, Sven Hroar Klempe, Jaan Valsiner, 2014-11-03 This book explores the basic concept of agency and develops it further in psychology using it to better understand and explain psychological processes and behavior More importantly this book seeks to put an emphasis on the role of agency in four distinct settings history of psychology neuroscience psychology of religion and sociocultural theories of co agency In Volume 12 of the Annals of Theoretical Psychology the contributors explore a number of new ways to look at agency in psychology This volume seeks to develop a systematic theory of axioms for agency It describes implications for research and practice that are founded on an understanding of the person as an actor in the world This book also has implications for research and practice across psychology's sub fields uniting the discipline through an agentic view of the person

Memory Power 101 W. R. Klemm, 2012-08-01 Today younger and older people alike are worried about their memories Billions of dollars are spent each year on herbs vitamins and drugs that can supposedly help you build a better memory or protect the skills you have With over 200 well researched tips and 300 scholarly references Memory Power 101 can do what no pill can help students get better grades aid professionals in essential confidence building and give seniors a means of taking control of senility Dr Klemm explains the different kinds of memories and how they are stored and accessed in everyday situations He offers advice on learning how to focus and pay attention so that key pieces of information are more easily used He talks about the importance of cues and stimuli both when learning and in recall discusses repressed memories Freudian slips the roles of both exercise and sleep in building a better memory and more With his advice you're bound to improve your memory of names and faces as well as read and heard information Keep better track of numbers and places and even remember where you left your house keys and where you parked your car Memory Power 101 is a unique book that can help almost anyone be more successful and happier

Culture Battles Robert T. Fertig, 2018-04-18 Culture Battles Truth Shall Prevail After decades of diligent research including digging into the writings of numerous renowned experts Robert T Fertig has produced an intriguing book Years in the making this work addresses age old questions everyone seeks answers to with a particular

emphasis on the differences that exist in thinking on critical life issues Bottom line questions include Why are we here Why is there evil in this world Whats our purpose in this life Romuald Dzemo for Readers Favorite 5 Star Rating Culture Battles Right from the very beginning of the book the reader is presented with a powerful question or a series of questions What drives History Politics Economics Might it be Culture what men and women honor cherish and worshipisnt that the most dynamic element in human affairs The author moves on quickly to demonstrate the intersection between faith and reason and how these are at the core of some of the cultural differences and battles history has known Christian Sia for Readers Favorite 5 Star Rating This is a powerful work that is well researched and that enters into dialogue with the best thinkers the world has ever known experts in religious and cultural phenomena and writers who have articulated on ideas of life cultural dialogue the purpose of human life the place of culture in the evolution of life human consciousness and a lot more **The Truth Seeker** ,1919 William Crookes (1832-1919) and the Commercialization of Science William Hodson Brock,2008 William Crookes long life was one of unbroken scientific and business activity culminating in his appointment as President of the Royal Society in 1913 Discoverer of thallium inventor of the radiometer investigator of cathode rays spiritualist journalist editor businessman celebrity his extraordinary life and career provide a unique window into the world of Victorian and Edwardian science **Mental Biology** W.R. Klemm,2014-04-08 A leading neuroscientist offers the latest research and many new ideas on the connections between brain circuitry and conscious experience How the mysterious three pound organ in our heads creates the rich array of human mental experience including the sense of self and consciousness is one of the great challenges of 21st century science Veteran neuroscientist W R Klemm presents the latest research findings on this elusive brain mind connection in a lucidly presented accessible and engaging narrative The author focuses on how mind emerges from nerve impulse patterns in the densely packed neural circuits that make up most of the brain suggesting that conscious mind can be viewed as a sort of neural activity based avatar As an entity in its own right mind on the conscious level can have significant independent action shaping the brain that sustains it through its plans goals interests and interactions with the world Thus in a very literal sense we become what we think Against researchers who argue that conscious mind is merely a passive observer and free will an illusion the author presents evidence showing that mental creativity freedom to act and personal responsibility are very real He also delves into the role of dream sleep in both animals and humans and explains the brain based differences between nonconscious unconscious and conscious minds Written in a jargon free style understandable to the lay reader this is a fascinating synthesis of recent neuroscience and intriguing hypotheses

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