

FRONTIERS IN NEUROSCIENCE

# **Functional and Neural Mechanisms of Interval Timing**

Edited by **Warren H. Meck**



# Functional And Neural Mechanisms Of Interval Timing

**Serge P. Shohov**



## **Functional And Neural Mechanisms Of Interval Timing:**

Functional and Neural Mechanisms of Interval Timing Warren H. Meck, 2003-03-24 Understanding temporal integration by the brain is expected to be among the premier topics to unite systems cellular computational and cognitive neuroscience over the next decade The phenomenon has been studied in humans and animals yet until now there has been no publication to successfully bring together the latest information gathered from *Multisensory Perception and Action: psychophysics, neural mechanisms, and applications* Zhuanghua Shi, Hermann Josef Mueller, 2015 *Advances in Psychology Research* Serge P. Shohov, 2004 *Advances in Psychology Research* presents original research results on the leading edge of psychology Each chapter has been carefully selected in an attempt to present substantial advances across a broad spectrum

**Handbook of Neurobehavioral Genetics and Phenotyping** Valter Tucci, 2017-03-06 The Handbook of Behavioral Genetics and Phenotyping represents an integrative approach to neurobehavioural genetics worldwide experts in their field will review all chapters Advanced overviews of neurobehavioural characteristics will add immense value to the investigation of animal mutants and provide unique information about the genetics and behavioural understanding of animal models under both normal and pathological conditions Cross species comparisons of neurobehavioural phenotypes will pave the way for an evolutionary understanding of behaviour Moreover while biological sciences are progressing towards a holistic approach to investigate the complexity of organisms i e systems biology approach an integrated analysis of behavioural phenotyping is still lacking The Handbook of Behavioral Genetics and Phenotyping strengthens the cross talk within disciplines that investigate the fundamental basis of behaviour and genetics This will be the first volume in which traditionally distant fields including genomics behaviour electrophysiology neuroeconomics and computational neuroscience among others are evaluated together and simultaneously accounted for during discussions of future perspectives **Multidisciplinary**

**Aspects of Time and Time Perception** Argiro Vatakis, Anna Esposito, Maria Giagkou, Fred Cummins, Georgios Papadelis, 2011-11-22 This book constitutes the documentation of the scientific outcome of the first meeting of the TIMELY network the International Workshop on Multidisciplinary Aspects of Time and Time Perception which took place in Athens Greece in October 2010 The 21 papers presented were carefully reviewed and selected for inclusion in the book They cover the following topics conceptual analysis and measurement of time exploring factors associated with time perception variability extending time research to ecologically valid stimuli and real world applications and uncovering the neural correlates of time perception TRP Ion Channel Function in Sensory Transduction and Cellular Signaling Cascades MD, PH.D., Wolfgang B. Liedtke, 2006-09-29 Since the first TRP ion channel was discovered in *Drosophila melanogaster* in 1989 the progress made in this area of signaling research has yielded findings that offer the potential to dramatically impact human health and wellness Involved in gateway activity for all five of our senses TRP channels have been shown to respond to a wide range of st Comparative Cognition Edward A. Wasserman, Thomas R. Zentall, 2009-04-08 This volume celebrates

comparative cognition's first quarter century with a state of the art collection of chapters covering the broad realm of the scientific study of animal intelligence Comparative Cognition will be an invaluable resource for students and professional researchers in all areas of psychology and neuroscience

*Attention and Time* Kia Nobre, Jennifer Theresa Coull, 2010 Our ability to selectively attend to our surroundings taking notice of the things that matter and ignoring those that don't is crucial if we are to efficiently negotiate the world around us However a number of factors influence just how and why we might pay attention to one thing but not another An important and often neglected factor is time For example the temporal proximity between the appearance of two events might make us assume they are causally related in some way We also know that the temporal space between the appearance of two related stimuli can be important if both are to be recognised Then there are issues regarding our own perception of time passing and how this can itself be influenced by what we attend to In comparison to the vast and long standing literature on spatial aspects of attention temporal aspects of attention have been relatively neglected *Attention and Time* is the first book in years to explore this fascinating topic It presents thirty chapters from internationally recognised experts in the field carefully organised into three stand alone yet extensively cross referenced themed sections Each section focuses on distinct ways in which attention and time influence one another These sections each encompassing a range of methodologies from classical cognitive psychology to single cell neurophysiology provide functionally unifying frameworks to help guide the reader through the many various experimental and theoretical approaches adopted Section 1 considers variations of attention across time and explores how attentional allocation is limited by very short or very long intervals of time Section 2 describes several types of temporal illusion illustrating how attention can modulate the perception of the passage of time itself A watched pot never boils and conversely time flies when you're having fun nicely capture the experimental observation that the degree of attention allocated to stimulus timing contributes to its subjective duration Finally Section 3 examines how attention can be directed in time to predictable or expected moments in time so as to optimise behaviour Bringing conceptually discrete yet functionally related fields of temporal attention research together within a single volume this book provides a comprehensive overview that will be of value to the interested novice in cognitive neuroscience whilst also inspiring experts in the field to make perhaps previously overlooked links with their own field of research

**The Routledge Companion to Embodied Music Interaction** Micheline Lesaffre, Pieter-Jan Maes, Marc Leman, 2017-09-19 The Routledge Companion to Embodied Music Interaction captures a new paradigm in the study of music interaction as a wave of recent research focuses on the role of the human body in musical experiences This volume brings together a broad collection of work that explores all aspects of this new approach to understanding how we interact with music addressing the issues that have roused the curiosities of scientists for ages to understand the complex and multi faceted way in which music manifests itself not just as sound but also as a variety of cultural styles not just as experience but also as awareness of that experience With contributions from an interdisciplinary

and international array of scholars including both empirical and theoretical perspectives the Companion explores an equally impressive array of topics including Dynamical music interaction theories and concepts Expressive gestural interaction Social music interaction Sociological and anthropological approaches Empowering health and well being Modeling music interaction Music based interaction technologies and applications This book is a vital resource for anyone seeking to understand human interaction with music from an embodied perspective     Cannabinoid Modulation of Emotion, Memory, and Motivation Patrizia Campolongo, Liana Fattore, 2015-05-18 The endocannabinoid system consists of cannabinoid receptors their endogenous lipid ligands endocannabinoids and the enzymatic machinery for their synthesis and degradation In the brain endocannabinoids regulate ion channel activity and neurotransmitter release and thereby contribute to various aspects of brain function including memory reward and emotions Their ability to modulate synaptic efficacy has a wide range of functional consequences and provides unique therapeutic possibilities Unprecedented advances have been made in the understanding of the role of endocannabinoids in the regulation of the emotional brain over the past few years However a comprehensive book encompassing all these aspects is still lacking The book will provide an overview of the role played by the endocannabinoid system in the regulation of emotional processes with particular emphasis on the modulation of memory and reward for emotionally arousing events and for the regulation of motivational aspects in cannabis use     **The Oxford Handbook of Music and the Brain** Michael Thaut, Donald A. Hodges, 2019 The study of music and the brain can be traced back to the work of Gall in the 18th century continuing with John Hughlings Jackson August Knoblauch Richard Wallaschek and others These early researchers were interested in localizing musicality in the brain and learning more about how music is processed in both healthy individuals and those with dysfunctions of various kinds Since then the research literature has mushroomed especially in the latter part of the 20th and early 21st centuries The Oxford Handbook of Music and the Brain is a groundbreaking compendium of current research on music in the human brain It brings together an international roster of 54 authors from 13 countries providing an essential guide to this rapidly growing field The major themes include Music the Brain and Cultural Contexts Music Processing in The Human Brain Neural Responses to Music Musicianship and Brain Function Developmental Issues in Music and the Brain Music the Brain and Health and the Future Each chapter offers a thorough review of the current status of research literature as well as an examination of limitations of knowledge and suggestions for future advancement and research efforts The book is valuable for a broad readership including neuroscientists musicians clinicians researchers and scholars from related fields but also readers with a general interest in the topic     Biological Antenna to the Humanoid Bot Pushpendra Singh, Kanad Ray, Anirban Bandyopadhyay, 2022-02-01 The book outlines a pathway to the development of fusion of electromagnetic resonance and artificial intelligence which will dominate the world of communication engineering Electromagnetic resonance is fundamental to all biomaterials The authors explore the peculiarities of this typical resonance behaviour in the literatures and provide the key points where the research

should direct Biological antennas are inspiring designing of several electromagnetic devices From biomimetic engineering to humanoid bots a revolution is undergoing Authors include entire development in the form of a book along with their contribution to this field

**The Oxford Handbook of Attention** Anna C. Nobre, Sabine Kastner, 2014-02-13 During the last three decades there have been enormous advances in our understanding of the neural mechanisms of selective attention at the network as well as the cellular level The Oxford Handbook of Attention brings together the different research areas that constitute contemporary attention research into one comprehensive and authoritative volume In 40 chapters it covers the most important aspects of attention research from the areas of cognitive psychology neuropsychology human and animal neuroscience computational modelling and philosophy The book is divided into 4 main sections Following an introduction from Michael Posner the books starts by looking at theoretical models of attention The next two sections are dedicated to spatial attention and non spatial attention respectively Within section 4 the authors consider the interactions between attention and other psychological domains The last two sections focus on attention related disorders and finally on computational models of attention Aimed at both scholars and students the Oxford Handbook of Attention provides a concise and state of the art review of the current literature in this field

**The Oxford Handbook of Cognitive Science** Susan F. Chipman, 2017 The Oxford Handbook of Cognitive Science emphasizes the research and theory most central to modern cognitive science computational theories of complex human cognition Additional facets of cognitive science are discussed in the handbook s introductory chapter

The Oxford Companion to Consciousness Tim Bayne, Axel Cleeremans, Patrick Wilken, 2009-06-04 Consciousness is undoubtedly one of the last remaining scientific mysteries and hence one of the greatest contemporary scientific challenges How does the brain s activity result in the rich phenomenology that characterizes our waking life Are animals conscious Why did consciousness evolve How does science proceed to answer such questions Can we define what consciousness is Can we measure it Can we use experimental results to further our understanding of disorders of consciousness such as those seen in schizophrenia delirium or altered states of consciousness These questions are at the heart of contemporary research in the domain Answering them requires a fundamentally interdisciplinary approach that engages not only philosophers but also neuroscientists and psychologists in a joint effort to develop novel approaches that reflect both the stunning recent advances in imaging methods as well as the continuing refinement of our concepts of consciousness In this light the Oxford Companion to Consciousness is the most complete authoritative survey of contemporary research on consciousness Five years in the making and including over 250 concise entries written by leaders in the field the volume covers both fundamental knowledge as well as more recent advances in this rapidly changing domain Structured as an easy to use dictionary and extensively cross referenced the Companion offers contributions from philosophy of mind to neuroscience from experimental psychology to clinical findings so reflecting the profoundly interdisciplinary nature of the domain Particular care has been taken to ensure that each of the entries is accessible to the general reader and

that the overall volume represents a comprehensive snapshot of the contemporary study of consciousness The result is a unique compendium that will prove indispensable to anyone interested in consciousness from beginning students wishing to clarify a concept to professional consciousness researchers looking for the best characterization of a particular phenomenon

**Language, Music, and the Brain** Michael A. Arbib, 2013-06-28 A presentation of music and language within an integrative embodied perspective of brain mechanisms for action emotion and social coordination This book explores the relationships between language music and the brain by pursuing four key themes and the crosstalk among them song and dance as a bridge between music and language multiple levels of structure from brain to behavior to culture the semantics of internal and external worlds and the role of emotion and the evolution and development of language The book offers specially commissioned expositions of current research accessible both to experts across disciplines and to non experts These chapters provide the background for reports by groups of specialists that chart current controversies and future directions of research on each theme The book looks beyond mere auditory experience probing the embodiment that links speech to gesture and music to dance The study of the brains of monkeys and songbirds illuminates hypotheses on the evolution of brain mechanisms that support music and language while the study of infants calibrates the developmental timetable of their capacities The result is a unique book that will interest any reader seeking to learn more about language or music and will appeal especially to readers intrigued by the relationships of language and music with each other and with the brain Contributors Francisco Aboitiz Michael A Arbib Annabel J Cohen Ian Cross Peter Ford Dominey W Tecumseh Fitch Leonardo Fogassi Jonathan Fritz Thomas Fritz Peter Hagoort John Halle Henkjan Honing Atsushi Iriki Petr Janata Erich Jarvis Stefan Koelsch Gina Kuperberg D Robert Ladd Fred Lerdahl Stephen C Levinson Jerome Lewis Katja Liebal J natas Manzolli Bjorn Merker Lawrence M Parsons Aniruddh D Patel Isabelle Peretz David Poeppel Josef P Rauschecker Nikki Rickard Klaus Scherer Gottfried Schlaug Uwe Seifert Mark Steedman Dietrich Stout Francesca Stregapede Sharon Thompson Schill Laurel Trainor Sandra E Trehub Paul Verschure

**Understanding the Role of Time-Dimension in the Brain Information Processing** Daya Shankar Gupta, Hugo Merchant, 2017-04-13 Optimized interaction of the brain with environment requires the four dimensional representation of space time in the neuronal circuits Information processing is an important part of this interaction which is critically dependent on time dimension Information processing has played an important role in the evolution of mammals and has reached a level of critical importance in the lives of primates particularly the humans The entanglement of time dimension with information processing in the brain is not clearly understood at present Time dimension in physical world the environment of an organism can be represented by the interval of a pendulum swing the cover page depicts temporal unit with the help of a swinging pendulum Temporal units in neural processes are represented by regular activities of pacemaker neurons tonic regular activities of proprioceptors and periodic fluctuations in the excitability of neurons underlying brain oscillations Moreover temporal units may be representationally associated with time bins

containing bits of information see the Editorial which may be studied to understand the entanglement of time dimension with neural information processing The optimized interaction of the brain with environment requires the calibration of neural temporal units Neural temporal units are calibrated as a result of feedback processes occurring during the interaction of an organism with environment Understanding the role of time dimension in the brain information processing requires a multidisciplinary approach which would include psychophysics single cell studies and brain recordings Although this Special Issue has helped us move forward on some fronts including theoretical understanding of calibration of time information in neural circuits and the role of brain oscillations in timing functions and integration of asynchronous sensory information further advancements are needed by developing correct computational tools to resolve the relationship between dynamic hierarchical neural oscillatory structures that form during the brain s interaction with environment **Measuring the**

**Mind** John Duncan, Peter McLeod, Louise H. Phillips, 2005-09-15 Section I Reaction time and mental speed 1 Ageing and response times a comparison of sequential sampling models Roger Ratcliff Anjali Thapar Philip L Smith Gail McKoon 2 Inconsistency in response time as an indicator of cognitive ageing David F Hultsch Michael A Hunter Stuart W S MacDonald Esther Strauss 3 Ageing and the ability to ignore irrelevant information in visual search and enumeration tasks Elizabeth A Maylor Derrick G Watson 4 Individual differences and cognitive models of the mind using the differentiation hypothesis to distinguish general and specific cognitive processes Mike Anderson Jeff Nelson 5 Reaction time parameters intelligence aging and death the West of Scotland Twenty 07 study Ian J Deary Geoff Der 6 The wrong tree time perception and time experience in the elderly John Wearden Section II Cognitive control and frontal lobe function 7 The chronometrics of task set control Stephen Monsell 8 An evaluation of the frontal lobe theory of cognitive ageing Louise H Phillips Julie D Henry 9 The gateway hypothesis of rostral prefrontal cortex area 10 function Paul W Burgess Jon S Simons Iroise Dumontheil Sam J Gilbert 10 Prefrontal cortex and Spearman s g John Duncan Section III Memory and age 11 On reducing age related declines in memory and executive control Fergus I M Craik 12 Working memory and ageing Alan Baddeley Hilary Baddeley Dino Chincotta Simona Luzzi Christobel Meikle 13 The own age effect in face recognition Timothy J Perfect Helen C Moon Section IV Real world cognition 14 Cognitive ethology giving real life to attention research Alan Kingstone Daniel Smilek Elina Birmingham Dave Cameron Walter Bischof 15 Are automated actions beyond conscious access Peter McLeod Peter Sommerville Nick Reed 16 Operator functional state the prediction of breakdown in human performance Robert J Hockey

**Eyeblink Conditioning in Psychiatric Conditions - State of the Field and Future Directions** Tracy L. Greer, Lucien T. Thompson, 2017-09-22 Eyeblink classical conditioning EBC is a model paradigm for associative also termed Pavlovian learning one of the simplest and best understood forms of learning and memory Because EBC paradigms are readily adapted across species the neural substrates of EBC have been well characterized and include but are not limited to the cerebellum and anterior interpositus nucleus the hippocampus and prefrontal cortices The ability to collect EBC data across many



different species i.e. including but not limited to humans also has the distinct advantage of facilitating translational research and therefore may be of particular benefit to elucidate mechanistic changes associated with a wide variety of psychiatric disorders. In fact, EBC paradigms have been employed to assess individuals with a wide range of neurological deficits including Korsakoff's amnesia, Alzheimer's disease, as well as normal aging, dyslexia, inflammatory tremor, dystonia, and multiple sclerosis and psychiatric disorders including major depressive disorder, anxiety disorders, schizophrenia, autism, and alcohol use addiction disorders. Individuals with these disorders exhibit differential impairments across different EBC task types, e.g. delay vs. trace EBC, with some showing impairment in one but not the other task, and some showing impairments in both across learning stage, e.g. acquisition, discrimination, or extinction, and across response variables, e.g. magnitude and timing of the conditioned eyeblink motor response, modality of the conditioned stimulus. Evaluating specific individual differences in the context of variable brain pathology should aid characterization and refinement of our understanding of complex neuropsychiatric disorders. The field of psychiatry has seen a transition from more traditional use of symptom clusters to define psychiatric disorders with subsequent examination of associated behaviors and traits to the use of physiological and behavioral indicators to characterize individuals with respect to various psychological domains in line with the National Institute of Mental Health Research Domain Criteria (RDoC) initiative. This approach employs a neuroscience-based framework to assess the pathophysiology of chronic mental illnesses. Behavioral and cognitive processes are critical domains of interest in evaluating potential maladaptive patterns that may be indicative of specific psychopathologies. Furthermore, the rapid development of technological advances that allow for more detailed examination, e.g. EEG, MEG, MRI, fMRI, infrared imaging, and manipulation, e.g. transcranial magnetic and direct current stimulation of brain functions, should enhance our ability to better characterize EBC performance and its utility in characterizing aspects of particular neuropathologies. Substantial research evidence exists for the value of EBC paradigms to inform our understanding of the pathophysiologies underlying a wide variety of neurological and psychiatric disorders. Despite these findings, this readily implemented classic cognitive behavioral paradigm is relatively underutilized in clinical settings. This e-book highlights recent convergence of clinical and research efforts in this area and aims to promote a resurgent interest in eyeblink classical conditioning and to emphasize the potential for future translational and diagnostic applications of EBC in combination with other techniques to strengthen our understanding of alterations in brain function manifested in behaviors characteristic of specific psychopathologies.

The Great Ideas of Clinical Science Scott O. Lilienfeld, William T. O'Donohue, 2012-12-06

The idea that there is a fundamental rift between researchers and practitioners should not come as a surprise to anyone familiar with the current literature trends and general feelings in the field of clinical psychology. Central to this scientist-practitioner gap is an underlying disagreement over the nature of knowledge, namely that while some individuals point to research studies as the foundation of truth, others argue that clinical experience offers a more adequate understanding of the causes

assessment and treatment of mental illness The Great Ideas of Clinical Science is an ambitious attempt to dig beneath these fundamental differences and reintroduce the reader to unifying principles often overlooked by students and professionals alike The editors have identified 17 such universals and have pulled together a group of the most prolific minds in the field to present the philosophical methodological and conceptual ideas that define the state of the field Each chapter focuses on practical as well as conceptual points offering valuable insight to practicing clinicians researchers and teachers of any level of experience Written for student practitioner researcher and educated layperson this integrative volume aims to facilitate communication among all mental health professionals and to narrow the scientist practitioner gap

## Whispering the Techniques of Language: An Mental Journey through **Functional And Neural Mechanisms Of Interval Timing**

In a digitally-driven world where monitors reign great and immediate communication drowns out the subtleties of language, the profound techniques and psychological subtleties hidden within phrases usually move unheard. However, situated within the pages of **Functional And Neural Mechanisms Of Interval Timing** a interesting fictional prize pulsing with natural emotions, lies a fantastic journey waiting to be undertaken. Penned by a talented wordsmith, this marvelous opus attracts viewers on an introspective journey, softly unraveling the veiled truths and profound impact resonating within ab muscles cloth of each word. Within the emotional depths of the poignant review, we will embark upon a honest exploration of the book is key themes, dissect their interesting publishing style, and succumb to the powerful resonance it evokes deep within the recesses of readers hearts.

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