1. Record Nr. UNINA9910876563803321 Autore Bennett M. R. Titolo History of cognitive neuroscience / / M.R. Bennett and P.M.S. Hacker Pubbl/distr/stampa Chichester, West Sussex, ; ; Malden, MA., : Wiley-Blackwell, 2012 **ISBN** 1-118-39426-7 1-118-39428-3 1-118-39429-1 [Pbk. ed.] Edizione Descrizione fisica 1 online resource (334 p.) Altri autori (Persone) HackerP. M. S (Peter Michael Stephan) Disciplina 612.8233 Soggetti Cognitive neuroscience - History Neurosciences - History Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. ""Title page"": ""Copyright page"": ""Contents"": ""List of Figures"": ""List Nota di contenuto of Plates""; ""Foreword""; ""Acknowledgements""; ""Introduction""; ""1: Perceptions, Sensations and Cortical Function: Helmholtz to Singer""; ""1.1 Visual Illusions and their Interpretation by Cognitive Scientists""; ""1.1.1 Misdescription of visual illusions by cognitive scientists""; ""1.2 Gestalt Laws of Vision""; ""1.3 Split-Brain Commissurotomy; the Two Hemispheres may Operate Independently""; ""1.3.1 Misdescription of the results of commissurotomy"" ""1.3.2 Explaining the discoveries derived from commissurotomies"""" 1.4 Specificity of Cortical Neurons""; ""1.4.1 Cardinal cells""; ""1.4.2 Misdescription of experiments leading to the conception of cardinal cells""; ""1.5 Multiple Pathways Connecting Visual Cortical Modules""; ""1.6 Mental Images and Representations""; ""1.6.1 Misconceptions about images and representations""; ""1.7 What and Where Pathways in Object Recognition and Maps""; ""1.8 Misuse of the Term a€?Mapsa€?""; ""1.9 The Binding Problem and 40 Hz Oscillations"" ""1.9.1 Misconceptions concerning the existence of a binding problem"""1.9.2 On the appropriate interpretation of synchronicity of neuronal firing in visual cortex""; ""1.10 Images and Imagining""; ""1.10.1 Misconceptions concerning images and imagining"; ""2:

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Sommario/riassunto

History of Cognitive Neuroscience documents the major neuroscientific experiments and theories over the last century and a half in the domain of cognitive neuroscience, and evaluates the cogency of the conclusions that have been drawn from them. Provides a companion work to the highly acclaimed Philosophical Foundations of Neuroscience - combining scientific detail with philosophical insights Views the evolution of brain science through the lens of its principal figures and experiments Addresses philosophical criticism of Bennett and Hacker's previous book Accompanied by more than 100 illustration