Record Nr. UNINA9910784568703321 Neurobiology of attention [[electronic resource] /] / edited by Laurent **Titolo** Itti, Geraint Rees, John K. Tsotsos Pubbl/distr/stampa Amsterdam: Boston: Elsevier Academic Press, 2005 **ISBN** 1-280-63066-3 9786610630660 0-08-045431-3 Descrizione fisica 1 online resource (757 p.) Altri autori (Persone) **IttiLaurent** ReesGeraint TsotsosJohn K 612.8/2 Disciplina 612.82 Soggetti Attention Neurobiology 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. Contributors: Foreword: Neurobiology of Attention: Preface: A Brief and Nota di contenuto Selective History of Attention; A Tour of This Volume; SECTION I: FOUNDATIONS; CHAPTER 1: Computational Foundations for Attentive Processes: CHAPTER 2: Capacity Limits for Spatial Discrimination: CHAPTER 3: Directed Visual Attention and the Dynamic Control of Information Flow; CHAPTER 4: Selective Attention as an Optimal Computational Strategy; CHAPTER 5: Surprise: A Shortcut for Attention?; CHAPTER 6: A Heteromodal Large-Scale Network for Spatial Attention CHAPTER 7: Parietal Mechanisms of Attentional Control: Locations, Features, and ObjectsCHAPTER 8: Visual Cortical Circuits and Spatial Attention; CHAPTER 9: Psychopharmacology of Human Attention; CHAPTER 10: Neuropharmacology of Attention; CHAPTER 11: Identifying the Neural Systems of Top-Down Attentional Control: A Meta-analytic Approach; CHAPTER 12: Attention Capture: The Interplay of Expectations, Attention, and Awareness; CHAPTER 13: Change

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Sommario/riassunto

A key property of neural processing in higher mammals is the ability to focus resources by selectively directing attention to relevant perceptions, thoughts or actions. Research into attention has grown rapidly over the past two decades, as new techniques have become available to study higher brain function in humans, non-human primates, and other mammals. Neurobiology of Attention is the first encyclopedic volume to summarize the latest developments in attention research. An authoritative collection of over 100 chapters organized into thematic sections provides both broad covera

Possible Roles for Attention