Record Nr. UNINA9910800158203321 Autore Bergman Hagai **Titolo** Augmenting cognition / / edited by Idan Segev and Henry Markram; contributing authors: Hagai Bergman, Catherine Coveney, Hubert R. Dinse, Renana Eitan, Mario A. Gatica Tossi, Kayoko Ishi, Zvi Israel, Tobias Kalisch, Jan C. Kattenstroh, Paul A. M. Lausanne, Switzerland:,: EPFL Press Pubbl/distr/stampa Boca Raton, FL:,: Taylor and Francis,, [2011] ©2011 **ISBN** 0-429-06345-8 1-4398-3994-8 Descrizione fisica 1 online resource (216 p.) Collana Life Sciences Disciplina 612.8233 Soggetti Neuropsychology Cognitive neuroscience Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references. Nota di bibliografia Nota di contenuto Front Cover; Table of Contents; The AugCog Era; Augmenting Cognition: Methodological Surveys; Chapter 1: Sensory Stimulation for Augmenting Perception, Sensorimotor Behavior and Cognition; Chapter 2: Improvisation for Prefrontal Rehabilitation; Chapter 3: Direct Brain Computer Interfaces To Restore Cognition; Chapter 4: Sleep and Memory: in Search of Functionality; Chapter 5: Augmenting Cognition with Music; Interlude: An Extraordinary Story in Cognition; Chapter 6: Accessing our"Inner Savant": the little Rain Man within us all; Augmenting Cognition: Ethical and Social Aspects Chapter 7: LongevityChapter 8: Pharmaceutical Cognitive Enhancement: Interrogating the Ethics, Addressing the Issues; Chapter 9: The Future of Deep Brain Stimulation; Chapter 10: Diagnosis, Prophylaxis, and Treatment after Psychological Trauma: Conceptual and Ethical Issues;

The Human brain is only 100,000 years old. Yet, this newly evolved

organ endows us with unique creative capabilities beyond all other living creatures, including the gift to understand itself. As our very

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survival and success in life depends on utilizing our brain's power, intense efforts have begun worldwide to understand the brain, reverse-engineer it and even augment its capacity. Towards this end we harness every trick in the book of mathematics, physics, chemistry, pharmacology, biology, psychology, as well as computer science, information sciences, and engineering - giving rise to the