Record Nr. UNINA9910463364603321 **Titolo** Advances in understanding human performance: neuroergonomics, human factors design, and special populations // editors, Tadeusz Marek, Waldemar Karwowski, Valerie Rice Boca Raton:,: CRC Press,, 2011 Pubbl/distr/stampa **ISBN** 0-429-15174-8 1-138-11181-3 1-4398-3502-0 Descrizione fisica 1 online resource (912 p.) Collana Advances in human factors and ergonomics series KarwowskiWaldemar <1953-> Altri autori (Persone) MarekTadeusz RiceValerie J. Berg Disciplina 620.82 Soggetti Human engineering Neuroergonomics Work design - Psychological aspects Environmental psychology Electronic books. Lingua di pubblicazione Inglese Materiale a stampa **Formato** Livello bibliografico Monografia "A CRC title." Note generali Includes bibliographical references. Nota di bibliografia Nota di contenuto Front Cover; Table of Contents; Preface; Section I: Neuroergonomics: Workload Assessment: Chapter 1: Neurogenetics of Working Memory and Decision Making under Time Pressure; Chapter 2: From Subjective Questionnaires to Saccadic Peak Velocity: A Neuroergonomics Index for Online Assessment of Mental Workload; Chapter 3: Cognitive Workload Assessment of Air Traffic Controllers Using Optical Brain Imaging Sensors; Chapter 4: Prestimulus Alpha as a Precursor to Errors in a UAV

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## Sommario/riassunto

Combining emerging concepts, theories, and applications of human factors knowledge, this volume focuses on discovery and understanding of human performance issues in complex systems, including recent advances in neural basis of human behavior at work (i. e. neuroergonomics), training, and universal design. The book is organized into ten sections that focus on the following subject matters: I: Neuroergonomics: Workload Assessment II: Models and Measurement in Neuroergonomics III: Neuroergonomics and Human Performance IV: Neuroergonomics and Training Issues V: Trainees: Designing for Those in Tra