



Advances in Cognitive Ergonomics (Advances in Human Factors and Ergonomics Series)

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The chapters in the book come from an international group of authors with diverse backgrounds including ergonomics, psychology, architecture, computer science, engineering, and sociology. Specific topics include biometric systems development, military command and control, cellular phone interface design, methodologies for workplace design, medical device design, cockpit display and decision tool design for pilots, driver visual and cognitive processes, and performance of inspection tasks in manufacturing operations; and extend to human-automation integration in future aviation systems, novel 3-D display technologies for enhancing information analysis, training methods for mental models, approaches to activity analysis, new research-oriented frameworks and paradigms in training, and the use of virtual reality for skill development and assessment. The book is divided into sections covering:

- I. Cultural Differences in Computing Systems Design
- II. Decision Making and Decision Support
- III. Desktop/Mobile Interface Design
- IV. Ergonomics in Design
- V. Ergonomics in Product Design
- VI. Human Factors in Aviation Systems
- VII. Human Factors in Driving
- VIII. Human Factors in Manufacturing
- IX. Human Factors in NextGen Operations
- X. Information Visualization for Situation Awareness
- XI. Mental Models
- XII. Perceptuo-Motor Skills & Psychophysical Assessment
- XIII. Task Analysis
- XIV. Training Technology
- XV. Virtual Reality for Behavior Assessment
- XVI. Virtual Reality for Psychomotor Training

The implications of all this work include design recommendations for complex systems and commercial products, new procedures for operator training and self-regulation as well as methods for accessibility to systems, and specification of ergonomic interventions at the user. It is expected that this book will be of special value to practitioners involved in design process development, design and prototyping of systems, products and services, as well as training process design for a broad range of applications and markets in

various countries.

Seven other titles in the Advances in Human Factors and Ergonomics Series are:

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