

1. Record Nr.	UNINA9910799919203321
Autore	Bennett Kevin B (Kevin Bruce), <1957, >
Titolo	Display and interface design : subtle science, exact art / / Kevin B. Bennett, John M. Flach
Pubbl/distr/stampa	Boca Raton : : CRC Press, , 2011
ISBN	0-429-14980-8 1-4200-6439-8
Descrizione fisica	1 online resource (492 p.)
Classificazione	TEC017000
Altri autori (Persone)	FlachJohn
Disciplina	004.01/9
Soggetti	User interfaces (Computer systems) Human-computer interaction
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.
Nota di contenuto	Front Cover; Contents; Preface; Acknowledgments; The Authors; Chapter 1: Introduction to Subtle Science, Exact Art; Chapter 2: A Meaning Processing Approach; Chapter 3: The Dynamics of Situations; Chapter 4: The Dynamics of Awareness; Chapter 5: The Dynamics of Situation Awareness; Chapter 6: A Framework for Ecological Interface Design (EID); Chapter 7: Display Design: Building a Conceptual Base; Chapter 8: Visual Attention and Form Perception; Chapter 9: Semantic Mapping versus Proximity Compatibility; Chapter 10: Design Tutorial: Configural Graphics for Process Control Chapter 11: Design Tutorial: Flying within the Field of Safe Travel Chapter 12: Metaphor: Leveraging Experience; Chapter 13: Design Tutorial: Mobile Phones and PDAs; Chapter 14: Design Tutorial: Command and Control; Chapter 15: Design Principles: Visual Momentum; Chapter 16: Measurement; Chapter 17: Interface Evaluation; Chapter 18: A New Way of Seeing?; Back Cover
Sommario/riassunto	Technological advances in hardware and software provide powerful tools with the potential to design interfaces that are powerful and easy to use. Yet, the frustrations and convoluted work-arounds often encountered make it clear that there is substantial room for improvement. Drawn from more than 60 years of combined experience studying, implementing, and teaching about performance in human-technology systems, <i>Display and Interface Design: Subtle Science, Exact</i>

Art provides a theoretically-based yet practical guide for ecological display and interface design. Written from the perspective of cognitive systems engineering and ecological interface design, the book delineates how to design interfaces tailored to specific work demands, leverage the powerful perception-action skills of the human, and use powerful interface technologies wisely. This triadic approach (domain, human, interface) to display and interface design stands in sharp contrast to traditional dyadic (human, interface) approaches. The authors describe general principles and specific strategies at length and include concrete examples and extensive design tutorials that illustrate quite clearly how these principles and strategies can be applied. The coverage spans the entire continuum of interfaces that might need to be developed in today's work places. The book includes access to a web site containing examples of the dynamic properties of displays. The reason that good interfaces are few and far between is really quite simple: they are extremely difficult to design and build properly. While there are many books available that address display design, most of them focus on aesthetic principles but lack scientific rigor, or are descriptive but not prescriptive. Whether you are exploring the principles of interface design or designing and implementing interfaces, this book elucidates an overarching framework for design that can be applied to the broad spectrum of existing domains--

---