1. Record Nr. UNINA9910825184903321

Autore	Stanton Neville A (Neville Anthony), <1960->
Titolo	Digitising command and control : a human factors and ergonomics analysis of mission planning and battlespace management / / Neville A. Stanton
Pubbl/distr/stampa	London : , : Taylor and Francis, , 2017
ISBN	1-317-15061-9 1-315-57724-0 1-317-15060-0 1-282-34433-1 9786612344336 0-7546-9502-6
Edizione	[First edition.]
Descrizione fisica	1 online resource (233 p.) : illustrations
Collana	Human factors in defence
Altri autori (Persone)	JenkinsDaniel P SalmonPaul M WalkerGuy RevellKirsten M. A RaffertyLaura A
Disciplina	355.3/3041
Soggetti	Electronics in military engineering Command and control systems Digital communications Human engineering Military planning
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.
Nota di contenuto	Cover; Contents; List of Figures; List of Tables; Acknowledgements; Glossary; About the Authors; Preface; 1 Overview of the Book; 2 Human Factors in System Design; 3 Mission Planning and Battlespace Management; 4 Constraint Analysis; 5 Hierarchical Task Analysis; 6 Distributed Situation Awareness; 7 Social Network Analysis; 8 SCADA Analysis; 9 Usability Questionnaire; 10 Environmental Survey; 11 Summary, Conclusions and Recommendations; References; Index

Sommario/riassunto

"This book presents a human factors and ergonomics evaluation of a digital Mission Planning and Battle-space Management (MP/BM) system. An emphasis was placed on the activities at the Brigade (Bde) and the Battle Group (BG) headquarters (HQ) levels. The analysts distributed their time evenly between these two locations. The human factors team from Brunel University, as part of the HFI DTC, undertook a multi-faceted approach to the investigation, including: - observation of people using the traditional analogue MP/BM processes in the course of their work - cognitive work analysis of the digital MP/BM system - analysis of the tasks and goal structure required by the digital MP/BM - assessment against a usability questionnaire - analysis of the distributed situation awareness - an environmental survey. The book concludes with a summary of the research project's findings and offers many valuable insights. For example, the recommendations for short-term improvements in the current generation of digital MP/BM system address general design improvements, user-interface design improvements, hardware improvements, infrastructure improvements and support improvements. In looking forward to the next generation digital MP/BM systems, general human factors design principles are presented and human factors issues in digitising mission planning are considered."--Provided by publisher.