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| 1. Record Nr. | UNIORUON00049938 |
| Autore | DANIEL, Norman |
| Titolo | Islam Europe and Empire / Norman Daniel |
| Pubbl/distr/stampa | Edinburgh, : At the University Press, 1966 |
| Descrizione fisica | XVII, 619 p., p. di tav. ; 23 cm |
| Classificazione | VO IV |
| Soggetti | MEDIO ORIENTE - STORIA - RAPPORTI CON L'OCCIDENTE |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
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| 2. Record Nr. | UNINA9910953640503321 |
| Titolo | Quantitative modeling of human performance in complex, dynamic systems // Sheldon Baron, Dana S. Kruser, and Beverly Messick Huey, editors ; Panel on Human Performance Modeling, Committee on Human Factors, Commission on Behavioral and Social Sciences and Education, National Research Council |
| Pubbl/distr/stampa | Washington, D.C., : National Academy Press, 1990 |
| ISBN | 9786610214273
9781280214271
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| Edizione | [1st ed.] |
| Descrizione fisica | 1 online resource (108 p.) |
| Altri autori (Persone) | HueyBeverly Messick
BaronSheldon
KruserDana S |
| Soggetti | Human information processing - Mathematical models
Human-computer interaction - Mathematical models |
| Lingua di pubblicazione | Inglese |

Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Panel chairman: Sheldon Baron. Project supported by the Office of Naval Research.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Quantitative Modeling of Human Performance in Complex, Dynamic Systems -- Copyright -- Contents -- Foreword -- Preface -- 1 Introduction -- SCOPE -- WHAT IS HUMAN PERFORMANCE MODELING? -- Output Versus Process -- Predictive Versus Descriptive -- Prescriptive (Normative) Versus Descriptive -- Top-Down Versus Bottom-Up -- Single-Task (Limited Scope) Versus Multitask (Comprehensive) -- MODELING METHODOLOGY -- WHY USE HUMAN PERFORMANCE MODELS? -- Processes That May Benefit from Their Use -- Theory Development and Evaluation -- System Design and Evaluation -- Alternative (or Complementary) Methodologies to Modeling -- Expert Opinion -- Simulation -- Evaluation of Real Systems -- Laboratory Experimentation -- Benefits of Human Performance Modeling -- Genealogy of Human Performance Models -- Information-Processing Models -- Control Theory Models -- Task Network Models -- Knowledge-Based Models -- 2 Approaches To Human Performance Modeling -- MODELS OF LIMITED SCOPE -- LARGER, OR INTEGRATIVE, APPROACHES -- Information Processing -- Background -- Exemplar -- Strengths -- Caveats -- Control Theory -- Background -- Exemplar -- Strengths -- Caveats -- Task Network -- Background -- Illustration -- Time/Accuracy Models -- Other Performance Measures -- Processing Models -- Open-and Closed-Loop Models -- Models of Limited Scope -- Aggregation Issues and Macromodels -- Exemplars -- Strengths -- Caveats -- Knowledge-Based -- Background -- Exemplars -- Strengths -- Caveats -- SUMMARY OF MODELING APPROACHES -- 3 Applications -- HUMAN PERFORMANCE MODELS IN AIRCRAFT OPERATIONS -- Flight Control -- Background -- Current Issues -- Summary -- Aircrew Workload -- Background -- Current Issues -- Summary -- Air-To-Surface Search and Targeting -- Background -- Current Issues -- Summary -- HUMAN PERFORMANCE MODELS IN NUCLEAR POWER OPERATIONS -- Background -- Current Issues. Summary -- HUMAN PERFORMANCE MODELS IN MAINTENANCE OPERATIONS -- Background -- Summary -- HUMAN PERFORMANCE MODELS IN SUPERVISORY CONTROL -- Background -- Summary -- 4 Issues and Research Recommendations -- OVERVIEW -- SPECIFICS -- Complex/Comprehensive Human Performance Models -- Issues -- Recommendations -- Model Parameterization -- Issues -- Recommendations -- Problems With Validation -- Issues -- Recommendations -- Underutilization/Inaccessibility of Human Performance Models -- Issues -- Recommendations -- Potential For Misuse Or Misunderstanding -- Issues -- Recommendations -- Mental Models to Account for Mental Aspects of Tasks -- Issues -- Recommendation -- Developing and Using Knowledge-Based Models -- Issues -- Recommendation -- Accounting For Individual Differences -- Issues -- Recommendations -- CONCLUSION -- References -- Index.
Sommario/riassunto	This book describes and evaluates existing models of human performance and their use in the design and evaluation of new human-technology systems. Its primary focus is on the modeling of system operators who perform supervisory and manual control tasks. After an introduction on human performance modeling, the book describes

information processing, control theory, task network, and knowledge-based models. It explains models of human performance in aircraft operations, nuclear power plant control, maintenance, and the supervisory control of process control systems, such as oil refineries. The book concludes with a discussion of model parameterization and validation and recommends a number of lines of research needed to strengthen model development and application.
