

DEFENSE TECHNICAL INFORMATION CENTER



Cognitive Task Analysis Defense Technical Information Center

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Cognitive Task Analysis Defense Technical Information Center:

Scientific and Technical Aerospace Reports, 1994 *The Handbook of Task Analysis for Human-Computer Interaction* Dan Diaper, Neville Stanton, 2003-09-01 A comprehensive review of the current state of research and use of task analysis for Human Computer Interaction HCI this multi authored and diligently edited handbook offers the best reference source available on this diverse subject whose foundations date to the turn of the last century Each chapter begins with an abstract and is cross referen

Cognitive Task Analysis (l'Analyse Des Taches Cognitives), 2000 Cognitive task analysis is defined as the extension of traditional task analysis techniques to yield information about the knowledge thought processes and goal structures that underlie observable task performance Cognitive task analyses are conducted for a wide variety of purposes including the design of computer systems to support human work the development of training and the development of tests to certify competence As part of its Programme of Work NATO Research Study Group 27 on Cognitive Task Analysis has undertaken the task of reviewing existing cognitive task analysis techniques The Group concludes that few integrated methods exist that little attention is being paid to the conditions under which methods are appropriate and that often it is unclear how the products of cognitive task analysis should be used RSG 27 has also organized a workshop with experts in the field of cognitive task analysis The most important issues that were discussed during the workshop were 1 the use of CTA in the design of new systems 2 the question when to use what technique and 3 the role of CTA in system design RSG 27 emphasizes 1 that is important for the CTA community to be able to empirically demonstrate the added value of a CTA 2 it is critical for the success of CTA to be involved in the design process from the start to finish and to establish clear links with methods that are used by other disciplines and 3 recommends that more research effort be directed to the issue of the reliability of CTA techniques

Applied Concept Mapping Brian Moon, Robert R. Hoffman, Joseph Novak, Alberto Canas, 2011-04-11 The expanding application of Concept Mapping includes its role in knowledge elicitation institutional memory preservation and ideation With the advent of the CmapTools knowledge modeling software kit Concept Mapping is being applied with increased frequency and success to address a variety of problems in the workplace Supported by business application case studies Applied Concept Mapping Capturing Analyzing and Organizing Knowledge offers an accessible introduction to the theory methods and application of Concept Mapping in business and government The case studies illustrate applications across a range of industries including engineering product development defense and healthcare The authors provide access to a free download of CmapTools courtesy of the Institute for Human and Machine Cognition to enable readers to create and share their own Concept Maps Offering examples from the United States Canada Australia Spain Brazil Scotland and The Netherlands they highlight a global perspective of this dynamic tool The text is organized into three sections Practitioners Views supplies narratives guidance and reviews of applications from career Concept Mappers Recent Case Studies and Results presents in depth examinations of specific applications and their results Pushing the

Boundaries explores what's possible and where the boundary conditions lie. Applied Concept Mapping facilitates the fundamental understanding needed to harness the power of Concept Mapping to develop viable solutions to a virtually unlimited number of real world problems. Expertise Out of Context Robert R. Hoffman, 2007. Researchers have revealed that real expertise while applied to well defined tasks with highly circumscribed contexts often stretches beyond its routine boundaries. For example a medical doctor may be called upon to diagnose a rare disease or perform emergency surgery outside his or her area of specialization because other experts are not available. Moreover in some cases the context for expertise is in a constant state of flux such that no one case is identical. Expertise Out of Context is a culmination of some of the most insightful studies conducted by researchers in the fields of cognitive systems engineering and naturalistic decision making in the effort to better understand expertise and its development. Born out of the Sixth International Conference on Naturalistic Decision Making a conference that gathers researchers who study cognition perception and reasoning outside of the traditional laboratory this book is organized in five parts the first of which provides an overview of the topic and presents varied perspectives. Consequent sections cover how to make sense of things tools for thinking out of context how to cope with uncertainty in a changing workplace and teams operating out of context. As researchers in naturalistic decision making have investigated such areas as the knowledge and decision making skills of expert firefighters critical care nurses military commanders and aircraft pilots this volume is of importance to an expansive audience including individuals in business government industry and society at large.

Automating a Detailed Cognitive Task Analysis for Structuring Curriculum, 1992 **Cognitive Systems Engineering in Military Aviation Environments**, 2002 **Evaluating a Computerized Aid for Conducting a Cognitive Task Analysis**, 2000. Models that simulate cognitive processes have demonstrated considerable success in a variety of technical domains such as intelligent tutoring predicting the complexity of human system interactions decision support and expert systems among others. Creating such models requires considerable skill in conducting a cognitive task analysis. The conduct of a cognitive task analysis is costly and labor intensive. As a result a few computerized aids have been developed to assist in the process of conducting such analyses. However none have been evaluated to determine how accurately and consistently users of such tools can create cognitive models. If such tools cannot demonstrate the creation of accurate models of cognitive tasks across users then such tools will be ineffective and unreliable. The research reported herein presents the results of experimentation which focuses upon the evaluation of a computerized aid specifically CAT HCI Cognitive Analysis Tool Human Computer Interface for the conduct of a detailed cognitive task analysis. A sample of users for a newly developed interface tactical display for the Army's Bradley A3 Fighting Vehicle were asked to model their knowledge of a routine task. Measures of the accuracy and of the consistency of the user generated models were recorded and analyzed. Accuracy measures the level of agreement between subject models and a baseline model while consistency measures the level of agreement between subject models.

Library & Information Sciences, 1990

Information and Knowledge Management ,1992 Directory of Federal Laboratory & Technology Resources ,1993 A locating tool for government sponsored research and engineering projects situated in federal laboratories and engineering facilities With the departments of agriculture commerce defense energy health and human services Interior transportation The Environmental Protection Agency NASA The National Science Foundation and The Veterans Administration Also included is a listing of technology transfer contracts **Information and Knowledge Management** Yelena Yesha,1992

Improving the Selection, Classification, and Utilization of Army Enlisted Personnel ,1985 **Government reports annual index** ,199? **Government Reports Annual Index: Keyword A-L** ,1987 **ICMI '06** ,2006 *Immersive Simulation Training for the Dismounted Soldier* Bruce W. Knerr,2007 A study was conducted to document the need for immersive dismounted virtual Soldier and leader training and the available research evidence regarding the effectiveness of virtual training for training Soldiers and leaders in complex skills A literature search of research reports journal articles and conference proceedings to identify evaluations and experiments related to the study topic of the training effectiveness of immersive virtual simulations was conducted Particular attention was paid to an expanded series of evaluations conducted by the Army R D organizations during the period 1997 2005 The major findings are organized around the topics of training effectiveness Soldier task performance and advantages and disadvantages of immersive virtual simulations Soldiers and small unit leaders report that their skills improve as a result of training in virtual simulations and these self reports by have generally if informally been confirmed by observers While the simulators impose constraints on the performance of some Soldier activities this should limit training effectiveness only if those activities that cannot be performed in the simulator are not trained by other means Advantages and disadvantages of immersive simulations are also described *Government Research Centers Directory* ,1980 *Government Reports Announcements & Index* ,1980 Improving Soldier Factors in Prediction Models Rick Archer,2002 Report developed under SBIR contract for topic A98 163 A key decision made at the highest levels of any military is the trade off between allocating resources to system acquisition versus allocating resources to maintain force readiness through training Advanced Distributed Simulations ADS provide a mechanism for tactical combat training through man in the loop simulators and Computer Generated Forces CGF The potential for using ADS to address the trade offs for allocating resources is dampened by the unrealistic behavior of CGF Phase 1 of this project produced algorithms data structures and a methodology for incorporating the effects of training and environmental stressors to improve CGF behavioral realism in Phase 11 we expanded and enhanced the technical feasibility for including these effects in CGF entities on simulated battlefields The resulting product is called the Training Effects and Stressor Integration Module TESTIM it can provide the Army with the ability to improve the realism of CGF entities in ADS and other human performance models TESTIM can also be used to assess the expected payoff of training in terms of improved performance DTIC

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