



# Critiquing Human Error A Knowledge Based Human Computer Collaboration Approach

**David W. Bade**



## **Critiquing Human Error A Knowledge Based Human Computer Collaboration Approach:**

*Critiquing Human Error* Barry G. Silverman, 1992 Provides design guidelines for producing successful expert critiquing systems and presents COPE a critic research testbed It also unifies the two traditions in the study of human expertise which have been directed towards reducing expert error and judgement bias *Cognitive Reliability and Error Analysis Method (CREAM)* E. Hollnagel, 1998-01-23 The growing dependence of working environments on complex technology has created many challenges and lead to a large number of accidents Although the quality of organization and management within the work environment plays an important role in these accidents the significance of individual human action as a direct cause and as a mitigating factor is undeniable This has created a need for new integrated approaches to accident analysis and risk assessment This book detailing the use of CREAM is therefore both timely and useful It presents an error taxonomy which integrates individual technological and organizational factors based on cognitive engineering principles In addition to the necessary theoretical foundation it provides a step by step description of how the taxonomy can be applied to analyse as well as predict performance using a context dependent cognitive model CREAM can be used as a second generation human reliability analysis HRA approach in probabilistic safety assessment PSA as a stand alone method for accident analysis and as part of a larger design method for interactive systems In particular the use of CREAM will enable system designers and risk analysts to identify tasks that require human cognition and therefore depend on cognitive reliability determine the conditions where cognitive reliability and ensuing risk may be reduced provide an appraisal of the consequences of human performance on system safety which can be used in PSA *Joint Cognitive Systems* Erik Hollnagel, David D. Woods, 2005-02-28 Nothing has been more prolific over the past century than human machine interaction Automobiles telephones computers manufacturing machines robots office equipment machines large and small all affect the very essence of our daily lives However this interaction has not always been efficient or easy and has at times turned fairly hazardous **SOFSEM 2001: Theory and Practice of Informatics** Leszek Pacholski, Peter Ruzicka, 2001-11-07 This book constitutes the refereed proceedings of the 28th Conference on Current Trends in Theory and Practice of Informatics SOFSEM 2001 held in Piestany Slovak Republic in November December 2001 The volume presents 12 invited lectures and one keynote paper by leading researchers together with 18 revised full research papers selected from 46 submissions The papers span the whole range of informatics with emphasis on trends in informatics enabling technologies for global computing and practical systems engineering *Engineering Psychology and Cognitive Ergonomics* Don Harris, 2017-07-05 This is the fifth edited volume of refereed contributions from an international group of researchers and specialists Volumes Five and Six comprise the edited proceedings of the third international conference on Engineering Psychology Cognitive Ergonomics organized by Cranfield College of Aeronautics Edinburgh Scotland in October 2000 Volume Five concentrates on applications in the areas of transportation medical ergonomics and training Topics addressed include the design of control and display systems human

perception error reliability information processing and performance modelling mental workload stress automation situation awareness skill acquisition and retention techniques for evaluating human machine systems and the physiological correlates of performance Both volumes will be useful to applied and occupational psychologists instructors instructional developers equipment and system designers researchers government regulatory personnel human resource managers and selection specialists also to senior pilots air traffic control and aviation and ground transportation operations management

**Computer Supported Risk Management** Giampiero Beroggi, W.A. Wallace, 2012-12-06 Advances in information technology provide opportunities for the development of computer systems that support risk managers in complex tasks Leading experts report on the potentials and limitations concerning the use of computer systems in risk management Their reports are based on many years of experience in their fields which include risk analysis systems engineering geographic information systems decision support systems human machine systems and psychology The book addresses four major issues in computer supported risk management Conceptual aspects the role design and use of computers in risk management Planning and policy analysis transportation equity analysis emergency management group decision making Operational decision making nuclear power monitoring emergency response public safety warning satellite tracking Commercial applications GIS from IIASA InterClair from IAEA EPA software cleanup decision support software survey This book is meant for researchers who will find the emerging issues in risk management that are motivated by the encounter of new tasks and novel technology practitioners who will have descriptions and references of the state of the art models and software and students who will learn the basic concepts needed to develop advanced information and decision support systems in risk management

**Artificial Intelligence, Technical Report UIUC-BI-AI.** ,1993      **Machine Learning and Knowledge Acquisition** Gheorghe Tecuci, Yves Kodratoff, 1995 Currently both fields are moving towards an integrated approach using machine learning techniques to automate knowledge acquisition from experts and knowledge acquisition techniques to guide and assist the learning process

*Probabilistic Risk Assessment and Management for Engineers and Scientists* Hiromitsu Kumamoto, Ernest J. Henley, 1996 As the demands of government agencies and insurance companies escalate societal risk assessment and management become increasingly critical to the development and use of engineered systems in the full range of industrial installations

**Artificial Intelligence, Technical Report UIUC-BI-AI-DSS.** ,1992      **Collaborative Crew Performance in Complex Operational Systems** North Atlantic Treaty Organization. Research and Technology Organization. Human Factors and Medicine Panel. Symposium, 1998 Contains the proceedings of the first RTO Human Factors and Medical Panel HFM Symposium held in Edinburgh Scotland April 20-22 1998 including the Technical Evaluation Report and Keynote Addresses Research and applications in human factors has frequently only considered individual operator interfaces for limited work domains in well defined scenarios as evaluated by unitary measures As we progress towards the next millennium complex operations will increasingly require consideration and integration of the collaborative

element wherein crew performance becomes a critical factor for success The goal of this symposium has been to bring together a global perspective on issues and factors that need to be understood when systems design is focused on the crew operating in a complex environment Hence the papers contained in these proceedings give the reader a broad multidisciplinary view of needs requirements ongoing research and development projects and various research agendas that will bring about new technologies approaches and measures with regard to collaborative crew performance The papers and multiple perspectives contained in these proceedings provide a baseline for understanding many elements of crew performance and in that sense will be valuable for the human factors specialist that must now design for the collaborative element and be concerned with the broad bandwidth of complexities within the operational setting Additionally the volume provides information for researchers scientists and engineers in many different areas who find themselves immersed in collaborative systems design

**AI Magazine** ,1993      Interactive Theory Revision Luc De Raedt,1992 Reports on an approach to the automation of theory revision The book develops a framework for interactive concept learning in knowledge based systems examining the methodology of an integrative learning system named Clint

**Knowledge Aided Design** Marc Green,1992      **The Theory and Practice of Bibliographic Failure, Or, Misinformation in the Information Society** David W. Bade,2004      **Engineering Psychology and Cognitive Ergonomics: Aerospace and Transportation Systems** Don Harris,2001      *International Journal of Applied Expert Systems* ,1993      Belgisch tijdschrift zekerheid ,1999      *Journal of Intelligent Systems* ,1996      **Signs, Search and Communication** René J. Jorna,Barend van Heusden,Roland Posner,1993 A selection of papers presented at the conference Expert Systems Culture and Semiotics held in Groningen the Netherlands December 1990 The volume is divided into three parts The first part is about signs and representations the second about reasoning and search and the third about communication and interaction between and with expert or knowledge systems Annotation copyright by Book News Inc Portland OR

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