

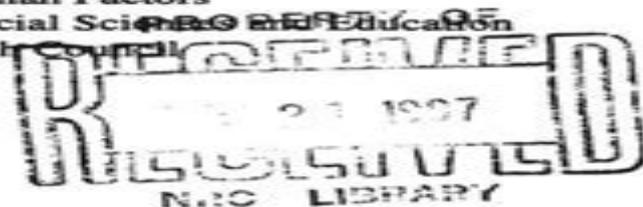
# **Representing Human Behavior in Military Simulations Interim Report**

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*Richard W. Pew and Anne S. Mavor, editors*

**Panel on Modeling Human Behavior and Command Decision Making:  
Representations for Military Simulations**

Committee on Human Factors  
Commission on Behavioral and Social Sciences and Education  
National Research Council



NATIONAL ACADEMY PRESS  
Washington, D.C. 1997

# Representing Human Behavior In Military Simulations Interim Report

**Paul A. Fishwick**



## **Representing Human Behavior In Military Simulations Interim Report:**

*Representing Human Behavior in Military Simulations: Interim Report* National Research Council Staff, 1997

**Representing Human Behavior in Military Simulations** National Research Council, National Research Council (U.S.). Panel on Modeling Human Behavior and Command Decision Making: Representations for Military Simulations, Board on Human-Systems Integration, 1997 Modeling Human and Organizational Behavior Panel on Modeling Human Behavior and Command Decision Making: Representations for Military Simulations, Board on Human-Systems Integration, Division of Behavioral and Social Sciences and Education, National Research Council, 1998-08-14 Simulations are widely used in the military for training personnel analyzing proposed equipment and rehearsing missions and these simulations need realistic models of human behavior This book draws together a wide variety of theoretical and applied research in human behavior modeling that can be considered for use in those simulations It covers behavior at the individual unit and command level At the individual soldier level the topics covered include attention learning memory decisionmaking perception situation awareness and planning At the unit level the focus is on command and control The book provides short medium and long term goals for research and development of more realistic models of human behavior The Future of Air Traffic Control National Research Council, Division of Behavioral and Social Sciences and Education, Board on Human-Systems Integration, Panel on Human Factors in Air Traffic Control Automation, 1998-01-26 Automation in air traffic control may increase efficiency but it also raises questions about adequate human control over automated systems Following on the panel's first volume on air traffic control automation *Flight to the Future* NRC 1997 this book focuses on the interaction of pilots and air traffic controllers with a growing network of automated functions in the airspace system The panel offers recommendations for development of human centered automation addressing key areas such as providing levels of automation that are appropriate to levels of risk examining procedures for recovery from emergencies free flight versus ground based authority and more The book explores ways in which technology can build on human strengths and compensate for human vulnerabilities minimizing both mistrust of automation and complacency about its abilities The panel presents an overview of emerging technologies and trends toward automation within the national airspace system in areas such as global positioning and other aspects of surveillance flight information provided to pilots and controllers collision avoidance strategic long term planning and systems for training and maintenance The book examines how to achieve better integration of research and development including the importance of user involvement in air traffic control It also discusses how to harmonize the wide range of functions in the national airspace system with a detailed review of the free flight initiative

*Handbook of Dynamic System Modeling* Paul A. Fishwick, 2007-06-01 The topic of dynamic models tends to be splintered across various disciplines making it difficult to uniformly study the subject Moreover the models have a variety of representations from traditional mathematical notations to diagrammatic and immersive depictions Collecting all of these

expressions of dynamic models the Handbook of Dynamic Systems *Program Solicitation*, 1998 The Case For Human Factors in Industry and Government National Research Council, Division of Behavioral and Social Sciences and Education, Board on Human-Systems Integration, 1997-10-10 **Learning, Training, and Development in Organizations** Steve W.J. Kozlowski, Eduardo Salas, 2009-08-06 This scholarly book in SIOP's Organizational Frontier series looks at research on enhancing knowledge acquisition and its application in organizations It concentrates on training design and delivery given the changing nature of work and organizations Now that work is increasingly complex there is greater emphasis on expertise and cognitive skills Advances in technology such as computer simulations and web based training are necessitating a more active role for the learner in the training process In the broad context of the organization systems this book promotes learning and development as a continuous lifelong endeavor Modeling Human Behavior With Integrated Cognitive Architectures Kevin A. Gluck, Richard W. Pew, 2006-04-21 Modeling Human Behavior With Integrated Cognitive Architectures summarizes the results of four years of collaborative research within the Air Force Research Laboratory and the Office of Naval Research **Applied Human Factors Research** Tareq Ahram and Waldemar Karwowski, 2022-07-24 Applied Human Factors Research Proceedings of the 13th International Conference on Applied Human Factors and Ergonomics AHFE 2022 July 24 28 2022 New York USA **Doing Good with Technologies:** Katinka Waelbers, 2011-06-27 20th century technologies like cars the Internet and the contraceptive pill have altered our actions changed our perceptions and influenced our moral ideas for better and worse Upcoming technologies are bound to fulfill their own unique social roles How can we advance this social role so that it will support the good life and limit undesired changes This book explores whether we can take a forward looking responsibility to optimize the social roles of technologies In doing so the book discusses three issues first it aims to understand the social role of technologies second it explores what it means to accept responsibility for this social role and third it searches for some forward looking tools that help us to see how new technologies may influence human behavior In a rather unique approach this book combines the influential sociological research of Bruno Latour on the social impacts of technologies with the contemporary Aristotelianism of Alasdair MacIntyre Artificial War: Multiagent-based Simulation Of Combat Andrew Ilachinski, 2004-06-14 Military conflicts particularly land combat possess the characteristics of complex adaptive systems combat forces are composed of a large number of nonlinearly interacting parts and are organized in a dynamic command and control network local action which often appears disordered self organizes into long range order military conflicts by their nature proceed far from equilibrium military forces adapt to a changing combat environment and there is no master voice that dictates the actions of every soldier i e battlefield action is decentralized Nonetheless most modern state of the art military simulations ignore the self organizing properties of combat This book summarizes the results of a multiyear research effort aimed at exploring the applicability of complex adaptive systems theory to the study of warfare and introduces a sophisticated multiagent based simulation of combat called EINSTEIN EINSTEIN

whose bottom up generative approach to modeling combat stands in stark contrast to the top down or reductionist philosophy that still underlies most conventional military models is designed to illustrate how many aspects of land combat may be understood as self organized emergent phenomena Used worldwide by the military operations research community EINSTEIN has pioneered the simulation of combat on a small to medium scale by using autonomous agents to model individual behaviors and personalities rather than hardware

**International Encyclopedia of Ergonomics and Human Factors - 3 Volume Set** Informa Healthcare, Waldemar Karwowski, 2006-03-15 The previous edition of the International Encyclopedia of Ergonomics and Human Factors made history as the first unified source of reliable information drawn from many realms of science and technology and created specifically with ergonomics professionals in mind It was also a winner of the Best Reference Award 2002 from the Engineering Libraries

**National Academies National Academies (U.S.), Annual Report** U.S. Army Research Institute for the Behavioral and Social Sciences, 1983 *Modeling and Simulation* National Research Council, Computer Science and Telecommunications Board, Committee on Modeling and Simulation: Opportunities for Collaboration Between the Defense and Entertainment Research Communities, 1997-10-19 The entertainment industry and the U S Department of Defense though differing widely in their motivations objectives and cultures share a common growing interest in modeling and simulation In entertainment modeling and simulation technologies drive multi billion dollar markets in video games virtual reality attractions and theme parks and film In DOD modeling and simulation provides a cost effective means of training troops developing doctrine and tactics and evaluating new and upgraded systems Modeling and Simulation explores both entertainment and military applications of modeling and simulation technology and examines ways in which the two communities can better leverage each others capabilities to strengthen the overall technology base It identifies common research challenges in immersive synthetic environments networked simulation and computer generated characters as well as the hardware and software tools needed to create simulated environments The book also discusses the differences in the business models of the entertainment and defense communities and addresses the need for continued support of multidisciplinary educational and research initiatives in modeling and simulation

**Signal**, 2010 **Organizational Simulation** William B. Rouse, Kenneth R. Boff, 2005-07-08 From modeling and simulation to games and entertainment With contributions from leaders in systems and organizational modeling behavioral and social sciences computing and visualization and gaming and entertainment Organizational Simulation both articulates the grand vision of immersive environments and shows in detail how to realize it This book offers unparalleled insight into the cutting edge of the field since it was written by those who actually researched designed developed deployed marketed sold and critiqued today s best organizational simulations The coverage is divided into four sections Introduction outlines the need for organizational simulation to support strategic thinking design of unprecedented systems and organizational learning including the functionality and technology required to enable this support Behaviors

covers the state of knowledge of individual group and team behaviors and performance how performance can best be supported how performance is affected by national differences and how organizational performance can best be measured Modeling describes the latest approaches to modeling and simulating people groups teams and organizations as well as narrative contexts and organizational environments within which these entities act drawing from a rich set of modeling methods and tools Simulations and Games illustrates a wide range of fielded simulations games and entertainment including the methods and tools employed for designing developing deploying and evaluating these systems as well as the social implications for the associated communities that have emerged Addressing all levels of organizational simulation architecture with theories and applications and enabling technologies for each Organizational Simulation offers students and professionals the premier reference and practical toolbox for this dynamic field **Scientific and Technical Aerospace Reports** ,1995 **Proceedings of the Military, Government and Aerospace Simulation (MGA 2001)** Michael J. Chinni,2001

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