



# Modeling Human and Organizational Behavior

APPLICATION TO  
MILITARY SIMULATIONS

NATIONAL RESEARCH COUNCIL

# Modeling Human Organizational Behavior Application To Military Simulations

**Vincent D. Duffy**



## **Modeling Human Organizational Behavior Application To Military Simulations:**

**Modeling Human and Organizational Behavior** National Research Council, Division of Behavioral and Social Sciences and Education, Board on Human-Systems Integration, Panel on Modeling Human Behavior and Command Decision Making: Representations for Military Simulations, 1998-07-31 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

**Modeling Human Behavior With Integrated Cognitive Architectures** Kevin A. Gluck, Richard W. Pew, 2006-04-21 Resulting from the need for greater realism in models of human and organizational behavior in military simulations there has been increased interest in research on integrative models of human performance both within the cognitive science community generally and within the defense and aerospace industries in particular This book documents accomplishments and lessons learned in a multi year project to examine the ability of a range of integrated cognitive modeling architectures to explain and predict human behavior in a common task environment that requires multi tasking and concept learning This unique project called the Agent Based Modeling and Behavior Representation AMBR Model Comparison involved a series of human performance model evaluations in which the processes and performance levels of computational cognitive models were compared to each other and to human operators performing the identical tasks In addition to quantitative data comparing the performance of the models and real human performance the book also presents a qualitatively oriented discussion of the practical and scientific considerations that arise in the course of attempting this kind of model development and validation effort The primary audiences for this book are people in academia industry and the military who are interested in explaining and predicting complex human behavior using computational cognitive modeling approaches The book should be of particular interest to individuals in any sector working in Psychology Cognitive Science Artificial Intelligence Industrial Engineering System Engineering Human Factors Ergonomics and Operations Research Any technically or scientifically oriented professional or student should find the material fully accessible without extensive mathematical background

**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

*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

*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

**Engineering Principles of Combat Modeling and Distributed Simulation** Andreas Tolks, 2012-02-14 Explore the military and combat applications of modeling

and simulation Engineering Principles of Combat Modeling and Distributed Simulation is the first book of its kind to address the three perspectives that simulation engineers must master for successful military and defense related modeling the operational view what needs to be modeled the conceptual view how to do combat modeling and the technical view how to conduct distributed simulation Through methods from the fields of operations research computer science and engineering readers are guided through the history current training practices and modern methodology related to combat modeling and distributed simulation systems Comprised of contributions from leading international researchers and practitioners this book provides a comprehensive overview of the engineering principles and state of the art methods needed to address the many facets of combat modeling and distributed simulation and features the following four sections Foundations introduces relevant topics and recommended practices providing the needed basis for understanding the challenges associated with combat modeling and distributed simulation Combat Modeling focuses on the challenges in human social cultural and behavioral modeling such as the core processes of move shoot look and communicate within a synthetic environment and also equips readers with the knowledge to fully understand the related concepts and limitations Distributed Simulation introduces the main challenges of advanced distributed simulation outlines the basics of validation and verification and exhibits how these systems can support the operational environment of the warfighter Advanced Topics highlights new and developing special topic areas including mathematical applications fo combat modeling combat modeling with high level architecture and base object models and virtual and interactive digital worlds Featuring practical examples and applications relevant to industrial and government audiences Engineering Principles of Combat Modeling and Distributed Simulation is an excellent resource for researchers and practitioners in the fields of operations research military modeling simulation and computer science Extensively classroom tested the book is also ideal for courses on modeling and simulation systems engineering and combat modeling at the graduate level

*Modeling and Simulation-Based Systems Engineering Handbook* Daniele Gianni,Andrea D'Ambrogio,Andreas Tolk,2018-10-09 The capability modeling and simulation M S supplies for managing systems complexity and investigating systems behaviors has made it a central activity in the development of new and existing systems However a handbook that provides established M S practices has not been available Until now Modeling and Simulation Based Systems Engineering Handbook details the M S practices for supporting systems engineering in diverse domains It discusses how you can identify systems engineering needs and adapt these practices to suit specific application domains thus avoiding redefining practices from scratch Although M S practices are used and embedded within individual disciplines they are often developed in isolation However they address recurring problems common to all disciplines The editors of this book tackled the challenge by recruiting key representatives from several communities harmonizing the different perspectives derived from individual backgrounds and lining them up with the book s vision The result is a collection of M S systems engineering examples that offer an initial means for cross domain capitalization of the knowledge

methodologies and technologies developed in several communities These examples provide the pros and cons of the methods and techniques available lessons learned and pitfalls to avoid As our society moves further in the information era knowledge and M S capabilities become key enablers for the engineering of complex systems and systems of systems Therefore knowledge and M S methodologies and technologies become valuable output in an engineering activity and their cross domain capitalization is key to further advance the future practices in systems engineering This book collates information across disciplines to provide you with the tools to more efficiently design and manage complex systems that achieve their goals

*Digital Human Modeling* Vincent D. Duffy,2007-08-24 This book constitutes the refereed proceedings of the First International Conference on Digital Human Modeling DHM 2007 held in Beijing China in July 2007 The papers thoroughly cover the thematic area of digital human modeling addressing the following major topics shape and movement modeling and anthropometry building and applying virtual humans medical and rehabilitation applications as well as industrial and ergonomic applications

*System Simulation and Scientific Computing, Part II* Tianyuan Xiao,Lin Zhang,Shiwei Ma,2012-10-08 The Three Volume Set CCIS 323 324 325 AsiaSim 2012 together with the Two Volume Set CCIS 326 327 ICSC 2012 constitutes the refereed proceedings of the Asia Simulation Conference AsiaSim 2012 and the International Conference on System Simulation ICSC 2012 held in Shanghai China in October 2012 The 267 revised full papers presented were carefully reviewed and selected from 906 submissions The papers are organized in topical sections on modeling theory and technology modeling and simulation technology on synthesized environment and virtual reality environment pervasive computing and simulation technology embedded computing and simulation technology verification validation and accreditation technology networked modeling and simulation technology modeling and simulation technology of continuous system discrete system hybrid system and intelligent system high performance computing and simulation technology cloud simulation technology modeling and simulation technology of complex system and open complex huge system simulation based acquisition and virtual prototyping engineering technology simulator simulation language and intelligent simulation system parallel and distributed software CAD CAE CAM CIMS VP VM and VR visualization computing and simulation applications in science and engineering computing and simulation applications in management society and economics computing and simulation applications in life and biomedical engineering computing and simulation applications in energy and environment computing and simulation applications in education computing and simulation applications in military field computing and simulation applications in medical field

**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 Sy

**Multi-Agent Systems** Adelinde M. Uhrmacher,Danny Weyns,2018-10-08 Methodological Guidelines for Modeling and

Developing MAS Based Simulations The intersection of agents modeling simulation and application domains has been the subject of active research for over two decades Although agents and simulation have been used effectively in a variety of application domains much of the supporting research remains scattered in the literature too often leaving scientists to develop multi agent system MAS models and simulations from scratch Multi Agent Systems Simulation and Applications provides an overdue review of the wide ranging facets of MAS simulation including methodological and application oriented guidelines This comprehensive resource reviews two decades of research in the intersection of MAS simulation and different application domains It provides scientists and developers with disciplined engineering approaches to modeling and developing MAS based simulations After providing an overview of the field s history and its basic principles as well as cataloging the various simulation engines for MAS the book devotes three sections to current and emerging approaches and applications Simulation for MAS explains simulation support for agent decision making the use of simulation for the design of self organizing systems the role of software architecture in simulating MAS and the use of simulation for studying learning and stigmergic interaction MAS for Simulation discusses an agent based framework for symbiotic simulation the use of country databases and expert systems for agent based modeling of social systems crowd behavior modeling agent based modeling and simulation of adult stem cells and agents for traffic simulation Tools presents a number of representative platforms and tools for MAS and simulation including Jason James II SeSAM and RoboCup Rescue Complete with over 200 figures and formulas this reference book provides the necessary overview of experiences with MAS simulation and the tools needed to exploit simulation in MAS for future research in a vast array of applications including home security computational systems biology and traffic management Scaled Worlds: Development, Validation and Applications Linda R.

Elliott,Michael D. Covert,2017-07-05 Scaled Worlds identifies and discusses the emerging challenges and opportunities arising from advanced technology simulation based microworld analogues of operational environments Providing invaluable new insights into the issues challenges and approaches for study related to measurement validation strategy cognitive modeling decision making team training and system performance its inclusive and comprehensive perspective pulls together a wealth of literature arising from diverse disciplines **DHM and Posturography** Sofia Scataglini,Gunther Paul,2019-08-22 DHM and Posturography explores the body of knowledge and state of the art in digital human modeling along with its application in ergonomics and posturography The book provides an industry first introductory and practitioner focused overview of human simulation tools with detailed chapters describing elements of posture postural interactions and fields of application Thus DHM tools and a specific scientific practical problem the study of posture are linked in a coherent framework In addition sections show how DHM interfaces with the most common physical devices for posture analysis Case studies provide the applied knowledge necessary for practitioners to make informed decisions Digital Human Modelling is the science of representing humans with their physical properties characteristics and behaviors in computerized virtual

models These models can be used standalone or integrated with other computerized object design systems to design or study designs workplaces or products in their relationship with humans Presents an introductory up to date overview and introduction to all industrially relevant DHM systems that will enable users on trialing procurement decisions and initial applications Includes user level examples and case studies of DHM application in various industrial fields Provides a structured and posturography focused compendium that is easy to access read and understand Made, Not Born Bruce Newsome, 2007-09-30 Why do the combat capabilities of individual soldiers vary so much This book seeks to provide an answer to this and other questions about variability in combat performance Some soldiers flee quickly from the battlefield while others endure all hardships until the bitter end Some combat units can perform numerous types of missions while others cannot keep themselves organized during peacetime Some militaries armed with obsolete weapons have out fought enemies with the latest weapons just as some massively outnumbered armies have beaten back much larger opponents In this first social scientific study of the effectiveness of combat troops Newsome evaluates competing explanations for the varying combat capabilities and performances There are four main explanations each emphasizing the influence of a single factor The first focuses on material endowments How well funded are the troops Do they have the latest protective gear and the most advanced weaponry Second some analysts claim that democracies produce better commanders superior strategies more motivated personnel or better managed personnel others however associated those characteristics with more authoritarian forms of government Third is the idea that giving more power to the troops on the ground in individual combat units empowers them with decision making capability and adaptability to fast changing situations and circumstances Newsome presents evidence that decentralized personnel management does correlate with superior combat performance Fourth soldier capabilities and performance often are assumed to reflect intrinsic attributes such as prior civilian values Newsome argues that the capabilities of combat soldiers are acquired through military training and other forms of conditioning but he does not entirely discount the role of a soldier s individual character In the age old nature vs nurture argument he finds that intrinsic qualities do count but that extrinsic factors such as training and environment matter even more

**Modeling and Simulation in the Systems Engineering Life Cycle** Margaret L. Loper, 2015-04-30 This easy to read text provides a broad introduction to the fundamental concepts of modeling and simulation M presents contributions from specialists in each topic covered introduces the foundational elements and processes that serve as the groundwork for understanding M explores common methods and methodologies used in M discusses how best to design and execute experiments covering the use of Monte Carlo techniques surrogate modeling and distributed simulation explores the use of M provides a selection of case studies illustrating the use of M S in systems engineering across a variety of domains

**Israel's National Security Towards the 21st Century** Uri Bar-Joseph, 2014-09-19 This volumes discusses three principal issues the Israeli army and the Revolution of Military Affairs RMA Israel s present and future answers to the threats



of weapons of mass destruction WMD and the impact of societal political and technological changes on Israel's future war objectives

**Discrete Event Modeling and Simulation Technologies** Hessam S. Sarjoughian, Francois E.

Cellier, 2013-03-09 The initial ideas behind this edited volume started in spring of 1998 some two years before the sixtieth birthday of Bernard P Zeigler The idea was to bring together distinguished researchers colleagues and former students of Professor Zeigler to present their latest findings at the AIS 2000 conference During the spring of 1999 the initial ideas evolved into creating a volume of articles surrounding seminal concepts pertaining to modeling and simulation as proposed developed and advocated by Professor Zeigler throughout his scientific career Also included would be articles describing progress covering related aspects of software engineering and artificial intelligence As this volume is emphasizing concepts and ideas spawned by the work of Bernard P Zeigler it is most appropriate to offer a biographical sketch of his scientific life thus putting into a historical perspective the contributions presented in this volume as well as new research directions that may lie ahead Bernard P Zeigler was born March 5 1940 in Montreal Quebec Canada where he obtained his bachelor's degree in engineering physics in 1962 from McGill University Two years later having completed his MS degree in electrical engineering at the Massachusetts Institute of Technology he spent a year at the National Research Council in Ottawa Returning to academia he became a Ph D student in computer and communication sciences at the University of Michigan Ann Arbor

**Modeling and Simulating Command and Control** Il-Chul Moon, Kathleen M. Carley, Tag Gon Kim, 2013-03-19

Commanding and controlling organizations in extreme situations is a challenging task in military intelligence and disaster management Such command and control must be quick effective and considerate when dealing with the changing complex and risky conditions of the situation To enable optimal command and control under extremes robust structures and efficient operations are required of organizations This work discusses how to design and conduct virtual experiments on resilient organizational structures and operational practices using modeling and simulation The work illustrates key aspects of robustly networked organizations and modeled performance of human decision makers through examples of naval air defense counterterrorism operations and disaster responses

**Modeling and Using Context** Varol Akman, Paolo

Bouquet, Richmond Thomason, Roger A. Young, 2003-06-30 Context has emerged as a central concept in a variety of contemporary approaches to reasoning The conference at which the papers in this volume were presented was the third international interdisciplinary conference on the topic of context and was held in Dundee Scotland on July 27-30 2001 The first conference in this series was held in Rio de Janeiro in 1997 and the second in Trento in 1999 Like the previous conferences CONTEXT 2001 was remarkably successful in bringing together representatives of many different fields spanning the entire range of the cognitive and informational sciences and with interests ranging from specific commercial applications to highly general philosophical and logical theories The papers collected here demonstrate well the range of context related research While foundational problems remain and continue to be discussed in many of the contributions collected in this volume the

work shows increased sophistication about what forms of reasoning are important and what techniques are appropriate in accounting for them. The papers themselves however do not convey the lively excitement of the conference itself and the continuing spirit of cooperation and communication across disciplines that has been the hallmark of these conferences. We are very pleased that the field of context research has shown over four years intense sustained development while retaining this sense of interdisciplinary cooperation.      Program Solicitation ,2002

## Whispering the Strategies of Language: An Emotional Quest through **Modeling Human Organizational Behavior Application To Military Simulations**

In a digitally-driven earth where monitors reign supreme and instant connection drowns out the subtleties of language, the profound strategies and psychological subtleties hidden within phrases often move unheard. Yet, nestled within the pages of **Modeling Human Organizational Behavior Application To Military Simulations** a captivating fictional treasure sporting with natural feelings, lies a fantastic journey waiting to be undertaken. Published by a talented wordsmith, that enchanting opus invites visitors on an introspective trip, softly unraveling the veiled truths and profound impact resonating within ab muscles material of every word. Within the psychological depths of this poignant evaluation, we shall embark upon a honest exploration of the book is key styles, dissect their fascinating writing style, and yield to the powerful resonance it evokes deep within the recesses of readers hearts.

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