

MODSIM III - A TUTORIAL

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ABSTRACT

This tutorial introduces the MODSIM III language, showing how its simulation "world view" together with its object-oriented architecture and built in graphics contribute to successful simulation model building.

1 WHAT IS MODSIM III?

Discrete systems simulation is one of the few truly new capabilities offered by the computing revolution. Computer simulation models provides us with a fascinating means to develop insight into the behaviors of the complex, non-deterministic systems which surround us - in communications networks, transportation logistics, business and manufacturing processes, to name a few. These systems are costly to develop and modify. Feasibility analysis and performance prediction through simulation can greatly reduce the risk of failure or wasteful expense.

Simulation is an exploratory technique. We develop a model which represents our best understanding of a proposed system or modification. We run the model in the hope that it will confirm our design intuition. If it does not we endeavor to understand why, and use this knowledge to refine the model. Ultimately, we will use the model to explain and justify decisions affecting the real-world system.

So, simulation serves three principal roles: to help us articulate a coherent description of a system; to validate its dynamic behavior to our satisfaction; and, then to communicate this to colleagues and decision makers. These steps are commonly iterative. It is usually wise to begin with a high-level abstraction of the system, allowing the model to evolve as we gain greater understanding of system behavior. Furthermore, the system itself may change in this rapidly changing environment, requiring changes to the model.

For the simulation study to be effective, the model behavior should be presented in an understandable way, typically using animation. Ideally, domain experts should be involved in construction and validation of the

model. Finally, the whole exercise must be completed within a useful time-frame, or it will serve little purpose.

Before embarking on model development, it may be prudent to look for a suitable, off-the-shelf, domain-specific simulator. Frequently, however, unique characteristics or fidelity requirements dictate the need for a custom model. The characteristics of simulation modeling, then, make some special demands of the model development environment. The modeler needs help in the conceptualization of systems with dynamic, interacting, probabilistic behaviors. The model should be understandable, maintainable, and should lend itself to incremental addition of detail. The environment should support graphical interaction for scenario development and animated model execution.

This tutorial will introduce the benefits of using an object oriented language specially developed for simulation, and enhanced with comprehensive graphics support. MODSIM III combines CACI's experience with simulation programming over three decades with advances in software engineering to offer the most productive environment for the development of large, complex, evolutionary, custom models.

Examples of MODSIM III's simulation features, and the benefits of object-oriented architecture, are demonstrated below using code fragments from a hypothesized airport/airspace planning model. Such a model might be concerned with the representation of aircraft, flight duration, air traffic controllers, runway allocation procedures, and so on. To be of any interest, such a model must represent multiple aircraft in flight concurrently, and delays due to contending requests for resources, such as runways.

2 DEFINITION BLOCK-AN INTERFACE DESCRIPTION

In support of modular program construction, objects in MODSIM III are described in two separate blocks of code. The Definition block describes the object type by declaring its variables and methods. This is the object description as it will be referred to by other objects in

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N Colangelo



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Proceedings of the 1998 Winter Simulation Conference D. J. Medeiros, 1998 Decision Making and Operations Research Techniques for Construction Management C. M. TAM, Thomas K. L. TONG, H. ZHANG, 2007-06-01 This book provides scientific tools for practitioners to resolve some practical problems which are administered empirically at present and may lead to inconsistent results and human errors The modern decision making tools introduced in this book include Multi criteria Decision making Models Artificial Neural Network Genetic Algorithms Construction Simulation Rough Set Theory and Advanced Statistical Techniques for construction Published by City University of Hong Kong Press

Fundamentals of Performance Evaluation of Computer and Telecommunication Systems Mohammed S. Obaidat, Nouredine A. Boudriga, 2010-01-26 The only singular all encompassing textbook on state of the art technical performance evaluation *Fundamentals of Performance Evaluation of Computer and Telecommunication Systems* uniquely presents all techniques of performance evaluation of computers systems communication networks and telecommunications in a balanced manner Written by the renowned Professor Mohammad S Obaidat and his coauthor Professor Nouredine Boudriga it is also the only resource to treat computer and telecommunication systems as inseparable issues The authors explain the basic concepts of performance evaluation applications performance evaluation metrics workload types benchmarking and characterization of workload This is followed by a review of the basics of probability theory and then the main techniques for performance evaluation namely measurement simulation and analytic modeling with case studies and examples Contains the practical and applicable knowledge necessary for a successful performance evaluation in a balanced approach Reviews measurement tools benchmark programs design of experiments traffic models basics of queueing theory and operational and mean value analysis Covers the techniques for validation and verification of simulation as well as random number generation random variate generation and testing with examples Features numerous examples and case studies as well as exercises and problems for use as homework or programming assignments *Fundamentals of Performance Evaluation of Computer and Telecommunication Systems* is an ideal textbook for graduate students in computer science electrical engineering computer engineering and information sciences technology and systems It is also an excellent reference for practicing engineers and scientists

Handbook of Industrial Engineering Gavriel Salvendy, 2001-05-25 Unrivalled coverage of a broad spectrum of industrial engineering concepts and applications The *Handbook of Industrial Engineering* Third Edition contains a vast array of timely and useful methodologies for achieving increased productivity quality and competitiveness and improving the quality of working life in manufacturing and service industries This astoundingly comprehensive resource also provides a cohesive structure to the discipline of industrial engineering with four major classifications technology performance improvement management management planning and design control and decision making methods Completely updated and expanded to reflect nearly a decade of important developments in the field this

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Networks These techniques developed some time ago by AI researchers are confronted by down to earth problems arising in high energy and nuclear physics However similar situations exist in other big sciences such as space research or plasma physics and common solutions can be applied The magnitude and complexity of the experiments on the horizon for the end of the century clearly call for the application of AI techniques Solutions are sought through international collaboration between research and industry

Simgraphics II ,1996 *Systems Modeling and Computer Simulation* Naim Kheir,2018-12-12 This second edition describes the fundamentals of modelling and simulation of continuous time discrete time discrete event and large scale systems Coverage new to this edition includes a chapter on non linear systems analysis and modelling complementing the treatment of of continuous time and discrete time systems and a chapter on the computer animation and visualization of dynamical systems motion

Perspectives of System Informatics Dines Bjorner,Manfred Broy,Alexandre Zamulin,2001-12-14 This book constitutes the thoroughly refereed post proceedings of the 4th International Andrei Ershov Memorial Conference PSI 2001 held in Akademgorodok Novosibirsk Russia in July 2001 The 50 revised papers presented together with 2 invited memorial papers devoted to the work of Andrei Ershov were carefully selected during 2 rounds of reviewing and improvement The book offers topical sections on computing and algorithms logical methods verification program transformation and synthesis semantics and types processes and concurrency UML specification Petri nets testing software construction data and knowledge bases logic programming constraint programming program analysis and language implementation

Technical digest Naval Surface Warfare Center (U.S.). Dahlgren Division,1994* **Proceedings of the Trends in Electronics Conference** ,1999 **Proceedings** ,1999 Simulation Symposium (SS 2000), 33rd Annual ,2000 An international array of simulation specialists in industry and academia contributed papers to the this April 2000 symposium which covered a variety of topics in the field A sampling of paper topics includes simulation of telecommunication systems using SimML optimal resource allocation for multi service networks specifying truck movements in traffic models using cell DEVs and flow control and dynamic load balancing in Time Warp Annotation copyrighted by Book News Inc Portland OR

Proceedings of the 1993 Summer Computer Simulation Conference Joel Schoen,1993 **MODSIM III.** ,1996 **Detection and Remediation Technologies for Mines and Minelike Targets** ,1996 Computer Systems Science and Engineering ,1992 **Discrete-event System Simulation** Jerry Banks,John S. Carson,Barry L. Nelson,1996 Offers comprehensive coverage of discrete event simulation emphasizing and describing the procedures used in operations research methodology generation and testing of random numbers collection and analysis of input data verification of simulation models and analysis of output data

Proceedings of the 1992 Object-Oriented Simulation Terrence G. Beaumariage,Raimund K. Ege,1992

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