

MOTIVATED METAMODELS

SYNTHESIS OF CAUSE- EFFECT REASONING AND STATISTICAL METAMODELING

Paul K. Davis

James H. Bigelow

Motivated Metamodels Synthesis Of Cause Effect Reasoning And Statistical

Rand Corporation



Motivated Metamodels Synthesis Of Cause Effect Reasoning And Statistical:

Motivated Metamodels: Synthesis of Cause-Effect Reasoning and Statistical Metamodeling, 2003 Simple low resolution models are needed for high level reasoning and communication decision support exploratory analysis and rapidly adaptive calculations Analytical organizations often have large and complex object models which are regarded as reasonably valid However they do not have simpler models and cannot readily develop them by rigorously studying and simplifying the object model Perhaps the object model is hopelessly opaque the organization no longer has the expertise to delve into the model s innards or there simply is not enough time to do so One recourse in such instances is statistical metamodeling which is often referred to as developing a response surface The idea is to emulate approximately the behavior of the object model with a statistical representation based on a sampling of base model data for a variety of test cases No deep knowledge of the problem area or the object model is required Unfortunately such statistical metamodels can have insidious shortcomings even if they are reasonably accurate on average This monograph describes some of those shortcomings and proposes a way motivated metamodeling to do better which amounts to drawing upon an approximate understanding of the phenomena at work i e upon approximate theory to suggest variables for and perhaps the analytical form of the metamodel This approach is hardly radical but it is quite different from what happens in normal statistical metamodeling The quality of metamodels can sometimes be greatly improved with relatively modest infusions of theory *Motivated Metamodels* Paul K. Davis,J. H. Bigelow,2003 A metamodel approximates the behavior of a more complex model A common and superficially attractive way to develop a metamodel is to generate large model data and use off the shelf statistical methods without attempting to understand the model s internal workings This report describes research illuminating why it can be important to improve the quality of metamodels by using even modest phenomenological knowledge to help structure them The work helps to understand multiresolution multiperspective modeling **Principles of Modeling and Simulation** John A. Sokolowski,Catherine M. Banks,2011-09-20 Explores wide ranging applications of modeling and simulation techniques that allow readers to conduct research and ask What if Principles of Modeling and Simulation A Multidisciplinary Approach is the first book to provide an introduction to modeling and simulation techniques across diverse areas of study Numerous researchers from the fields of social science engineering computer science and business have collaborated on this work to explore the multifaceted uses of computational modeling while illustrating their applications in common spreadsheets The book is organized into three succinct parts Principles of Modeling and Simulation provides a brief history of modeling and simulation outlines its many functions and explores the advantages and disadvantages of using models in problem solving Two major reasons to employ modeling and simulation are illustrated through the study of a specific problem in conjunction with the use of related applications thus gaining insight into complex concepts Theoretical Underpinnings examines various modeling techniques and introduces readers to two significant simulation concepts discrete event simulation and simulation

of continuous systems This section details the two primary methods in which humans interface with simulations and it also distinguishes the meaning importance and significance of verification and validation Practical Domains delves into specific topics related to transportation business medicine social science and enterprise decision support The challenges of modeling and simulation are discussed along with advanced applied principles of modeling and simulation such as representation techniques integration into the application infrastructure and emerging technologies With its accessible style and wealth of real world examples Principles of Modeling and Simulation A Multidisciplinary Approach is a valuable book for modeling and simulation courses at the upper undergraduate and graduate levels It is also an indispensable reference for researchers and practitioners working in statistics mathematics engineering computer science economics and the social sciences who would like to further develop their understanding and knowledge of the field Analysis, Analysis Practices, and Implications for Modeling and Simulation Paul K. Davis, Amy E. Henninger, 2007 An examination of analysis and analysis practices for defense planning the paper's purpose is to delineate priorities for the way ahead i e for investments and other actions to ensure that future models and simulations will serve the needs of decisionmakers The analysis in question is accomplished for Quadrennial Reviews and for continuing work on capability assessments requirements analysis and program analysis

Implications of Modern Decision Science for Military Decision-Support Systems Paul K. Davis, Jonathan Kulick, Michael Egner, 2005-09-14 A selective review of modern decision science and implications for decision support systems The study suggests ways to synthesize lessons from research on heuristics and biases with those from naturalistic research It also discusses modern tools such as increasingly realistic simulations multiresolution modeling and exploratory analysis which can assist decisionmakers in choosing strategies that are flexible adaptive and robust Model Engineering for Simulation Lin Zhang, Bernard P. Zeigler, Yuanjun Lai, 2019-02-27 Model Engineering for Simulation provides a systematic introduction to the implementation of generic normalized and quantifiable modeling and simulation using DEVS formalism It describes key technologies relating to model lifecycle management including model description languages complexity analysis model management service oriented model composition quantitative measurement of model credibility and model validation and verification The book clearly demonstrates how to construct computationally efficient object oriented simulations of DEVS models on parallel and distributed environments Guides systems and control engineers in the practical creation and delivery of simulation models using DEVS formalism Provides practical methods to improve credibility of models and manage the model lifecycle Helps readers gain an overall understanding of model lifecycle management and analysis Supported by an online ancillary package that includes an instructors and student solutions manual **New Challenges, New Tools for Defense Decisionmaking** Stuart E. Johnson, Martin C. Libicki, Gregory F. Trevorton, 2003 The collapse of the Soviet Union and the end of the Cold War and then the terrorist attacks of September 11 2001 transformed the task of American foreign and defense policymaking This book outlines the dimensions of that transformation and sketches

new tools for dealing with the policy challenges from modeling and gaming to planning based on capabilities rather than threats to personnel planning and making use of best practices from the private sector

Decision Making under Deep Uncertainty Vincent A. W. J. Marchau, Warren E. Walker, Pieter J. T. M. Bloemen, Steven W. Popper, 2019-04-04 This open access book focuses on both the theory and practice associated with the tools and approaches for decisionmaking in the face of deep uncertainty It explores approaches and tools supporting the design of strategic plans under deep uncertainty and their testing in the real world including barriers and enablers for their use in practice The book broadens traditional approaches and tools to include the analysis of actors and networks related to the problem at hand It also shows how lessons learned in the application process can be used to improve the approaches and tools used in the design process The book offers guidance in identifying and applying appropriate approaches and tools to design plans as well as advice on implementing these plans in the real world For decisionmakers and practitioners the book includes realistic examples and practical guidelines that should help them understand what decisionmaking under deep uncertainty is and how it may be of assistance to them *Decision Making under Deep Uncertainty From Theory to Practice* is divided into four parts Part I presents five approaches for designing strategic plans under deep uncertainty Robust Decision Making Dynamic Adaptive Planning Dynamic Adaptive Policy Pathways Info Gap Decision Theory and Engineering Options Analysis Each approach is worked out in terms of its theoretical foundations methodological steps to follow when using the approach latest methodological insights and challenges for improvement In Part II applications of each of these approaches are presented Based on recent case studies the practical implications of applying each approach are discussed in depth Part III focuses on using the approaches and tools in real world contexts based on insights from real world cases Part IV contains conclusions and a synthesis of the lessons that can be drawn for designing applying and implementing strategic plans under deep uncertainty as well as recommendations for future work The publication of this book has been funded by the Radboud University the RAND Corporation Delft University of Technology and Deltares

Enabling Technologies for Simulation Science VIII Dawn A. Trevisani, Alex F. Sisti, 2004 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

Improving Air Force Purchasing and Supply Management of Spare Parts Robert W. Bickel, 2003 This research provides the Air Force with a methodology for evaluating various strategies to improve the procurement of spare parts and applies the methodology to F100 engine parts The author uses exploratory analysis techniques and system dynamic modeling to gain a better understanding of the effectiveness of various supplier management policies including identifying those policy levers most effective in improving various measures of interest The research shows that policy and organizational changes in the purchasing and supply management PSM process have the

potential to improve effectiveness while maintaining or lowering costs It also demonstrates that a system dynamic model can be an important contribution to defining discussing and understanding the complex interactions among policy levers and outcome measures particularly in enhancing PSM efficiency and effectiveness **Annual Report** Rand Corporation,2003

Selected Rand Abstracts Rand Corporation,2003 Includes publications previously listed in the supplements to the Index of selected publications of the Rand Corporation Oct 1962 Feb 1963 **Forthcoming Books** Rose Arny,2003

Books in Print Supplement ,2002 **Cause and Effect, Conditionals, Explanations** Richard L. Epstein,2011-04 This series of books presents the fundamentals of reasoning well in a style accessible to both students and scholars The text of each essay presents a story the main line of development of the ideas while the footnotes and appendices place the research within a larger scholarly context The essays overlap forming a unified analysis of reasoning yet each essay is designed so that it may be read independently of the others The topic of this volume is the evaluation of reasoning about cause and effect reasoning using conditionals and reasoning that involves explanations The essay Reasoning about Cause and Effect sets out a way to analyze whether there is cause and effect in terms of whether an inference from a claim describing the purported cause to a claim describing the purported effect satisfies specific conditions Different notions of cause and effect correspond to placing different conditions on what counts as a good causal inference An application of that method in The Directedness of Emotions leads to a clearer understanding of the issue whether every emotion need be directed at something In the essay Conditionals various ways of analyzing reasoning with claims of the form if then are surveyed Some of those uses are meant to be judged as inferences that are not necessarily valid and conditions are given for when we can consider such inferences to be good In Explanations verbal answers to a question why a claim is true are evaluated in terms of conditions placed on inferences from the explaining claims to the claim being explained Recognizing that the direction of inference of such an explanation is the reverse of that for an argument with the very same claims is crucial in their evaluation Explanations in terms of functions and goals are also investigated

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