

Problem Definition And Model Conceptualization

This book includes many cases that provide new perspectives in developing agent-based modeling and simulation. The real problems are complex, and sophisticated methodology is needed to handle them. Agent-based modeling and simulation is one methodology that provides a bottom-up experimental approach applicable to social sciences such as economics, management, sociology, and politics as well as some engineering fields dealing with social activities. However, to improve the applicability of agent-based modeling and

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simulation methods, a new perspective is needed. In this book, that new perspective is developed and utilized to deal with many cases of real-world problems such as the supply chain, land use and land cover, transportation, health, services, economics, and social problems. The cases are selected from papers presented at the Ninth International Workshop on Agent-Based Approaches in Economic and Social Complex Systems held in Bali, Indonesia, in 2015. At the workshop, 29 reviewed full papers were presented, and of those, 16 were selected to be included in this volume.

The book contains a collection of papers presented at the 1989 International Conference of the Systems Dynamics Society in Stuttgart. It presents the state of the art in systems research

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and computer simulation modeling for the analysis and design of complex systems. The interdisciplinary and cross-disciplinary oriented contributions accentuate the potential benefits of well designed simulation experiments. The structure of the volume follows the conference program. Papers presented in the Plenary Sessions, deal with the impact of systems thinking on management in general. They underline the need for a "New Management Style" to utilize to potential of formal models combined with advanced computer technology. The increasing size and complexity of problem situations cannot be coped with in a more intuitive manner. Other parts of the volume discuss applications of Systems Dynamics to business strategy, macro-economic policy,

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government planning etc. Methodological aspects are treated in sections on optimization of complex systems, teaching and training of such a systems approach is treated in an appropriate proportion.

This book is a venture in the worlds of modeling and of metamodeling. At this point, I will not reveal to readers what constitutes metamodeling. Suffice it to say that the pitfalls and shortcomings of modeling can be cured only if we resort to a higher level of inquiry called metainquiry and metadesign. We reach this level by the process of abstraction. The book contains five chapters from my previous work, Applied General Systems Theory (Harper and Row, London and New York, First Edition 1974, Second Edition 1978). More than ten

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years after its publication, this material still appears relevant to the main thrust of system design. This book is dedicated to all those who are involved in changing the world for the better. In a way we all are involved in system design: from the city manager who struggles with the problems of mass transportation or the consolidation of a city and its suburbs to the social worker who tries to provide benefits to the urban poor. It includes the engineer who designs the shuttle rockets. It involves the politician engaged in drafting a bill to recycle containers, or one to prevent pesticide contamination of our food. The politician might even need system design to chart his or her own re-election campaign.

The professional development of researchers is critical for the

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future development of the fields of pediatric and clinical child psychology. In order to conduct research in pediatric and clinical child psychology, researchers need to work with a wide range of populations and master an increasingly wide range of skills, many of which are either not formally taught or considered in sufficient depth in clinical training. Such skills include the development of resources for research by writing grants to government agencies and foundations; skills in preparing research for publications concerning original research, review articles, or case reports; scientific presentation skills; the ability to review and edit scientific manuscripts; and to implement and manage research in applied settings. Moreover, the increasing complexity of

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research in pediatric and clinical child psychology requires successful researchers in these fields to develop their expertise with a wide range of new specialized methodologies, data analytic methods, models of data analysis, and methods of assessment. Finally, to enhance the relevance of their research to practice, researchers in pediatric and clinical child psychology need to integrate their work with clinical service delivery programs that are based on empirical research. The necessity to train researchers in pediatric and clinical child psychology in such multifaceted knowledge and skills places extraordinary burdens on professional training programs. Professional researchers in pediatric and child clinical psychology also are challenged to develop new knowledge and

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skills through continuing education and faculty development programs.

System and Boundary Conceptualization in Ground-water Flow Simulation

Dynamic Models and Discrete Event Simulation

Recent Developments in Decision Support Systems

Groundwater Flow and Quality Modelling

Software Process Dynamics

CommonKADS Library for Expertise Modelling

This volume brings together, in a central text, chapters written by leading scholars working at the intersection of modeling, the natural

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and social sciences, and public participation. This book presents the current state of knowledge regarding the theory and practice of engaging stakeholders in environmental modeling for decision-making, and includes basic theoretical considerations, an overview of methods and tools available, and case study examples of these principles and methods in practice. Although there has been a significant increase in research and development regarding participatory modeling, a unifying text that provides an

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overview of the different methodologies available to scholars and a systematic review of case study applications has been largely unavailable. This edited volume seeks to address a gap in the literature and provide a primer that addresses the growing demand to adopt and apply a range of modeling methods that includes the public in environmental assessment and management. The book is divided into two main sections. The first part of the book covers basic considerations for including stakeholders in the modeling

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process and its intersection with the theory and practice of public participation in environmental decision-making. The second part of the book is devoted to specific applications and products of the various methods available through case study examination. This second part of the book also provides insight from several international experts currently working in the field about their approaches, types of interactions with stakeholders, models produced, and the challenges they perceived

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based on their practical experiences.
Software Process Dynamics John Wiley & Sons
This book is about increasing team performance. It focuses on building system dynamics models when tackling a mix of interrelated strategic problems to enhance team learning, foster consensus, and create commitment. The book is intended to be applied in the organizations of today. As the "command and control" organization evolves into one of decision-making teams, so these teams have become the critical building

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blocks upon which the performance of the organization depends. The team members face an increased complexity of decision making with the interrelation of several strategic problems. What this means is that people have different views of the situation and will define problems differently. However, research shows that this can in fact be very productive if and when people learn from each other in order to build a shared perspective. Learning in this way might prove to be the only sustainable competitive

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advantage for organizations in the future. As a result, team leaders want to create "learning teams" and are confronted with issues such as how to: create a situation where people doubt their ideas rather than stubbornly cling to dearly held views create a learning atmosphere rather than trying to "win" the discussion create a shared understanding of a problem in a team foster consensus and create commitment with a strategic decision facilitate Group Model Building Those who will benefit most from Group Model Building:

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Facilitating Team Learning Using System Dynamics are those who are familiar with systems thinking or organizational learning, or those who are working in groups and are coming up against the common difficulties. This book aims to clarify exactly how simulation studies can be carried out in the system theory paradigm, while providing a realistically complete coverage of (discrete event) simulation in its more traditional aspects. It focuses on the subclass of predictive, generative and dynamic system

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models.

Discrete Event Simulation for Health

Technology Assessment

Post-Proceedings of The AESCS International
Workshop 2015

Societal Impacts on Information Systems

Development and Applications

Developing Future Interactive Systems

Quantitative Models

Diagnosis, Conceptualization, and Treatment

Planning for Adults

Integrating recent research and developments

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in the field, this revised second edition introduces an easy-to-master strategy for developing and writing culturally sensitive case conceptualizations and treatment plans. Concrete guidelines and updated case material are provided for developing conceptualizations for the five most common therapy models: Cognitive-Behavioral Therapy (CBT), Psychodynamic, Biopsychosocial, Adlerian, and Acceptance and Commitment Therapy. The chapters also include specific exercises and activities for mastering case

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conceptualization and related competencies and skills. Also new to this edition is a chapter on couple and family case conceptualizations, and an emphasis throughout on trauma.

Practitioners, as well as graduate students in counseling and in clinical psychology, will gain the essential skills and knowledge they need to master case conceptualizations.

Over the years, a variety of software process models have been designed to structure, describe and prescribe the software systems construction process. More recently, software

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process modelling is increasingly dealing with new challenges raised by the tests that the software industry has to face. This book addresses these new trends in software process modeling related to: ? Processes for open source software;? Systems dynamics to model and simulate the software process;? Peopleware: the importance of people in the software development and by extension in the software process. One new software development trend is the development of open source projects. As such projects are a

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recent creation, the process model governing this type of developments is unfamiliar. This book deals with process modeling for open source software. It also deals with software process simulation applied to the management of software projects and improves the software development process capability according to CMM (Capability Maturity Model). Software development is a conjunction of: the organizational environment, the social environment and the technological environment. The inclusion of

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these environments will make it possible to output software process models that meet the specified organizational, cultural and technological requirements, providing an exhaustive analysis of the people in the software process, as well as supporting people-oriented software development. This book deals with the development of software by means of people-oriented process models that have proven to be very beneficial. This volume highlights recent applications of multiple-criteria decision-making (MCDM)

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models in the field of finance. Covering a wide range of MCDM approaches, including multiobjective optimization, goal programming, value-based models, outranking techniques, and fuzzy models, it provides researchers and practitioners with a set of MCDM methodologies and empirical results in areas such as portfolio management, investment appraisal, banking, and corporate finance, among others. The book addresses issues related to problem structuring and modeling, solution techniques,

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comparative analyses, as well as combinations of MCDM models with other analytical methodologies.

Conflict is a major facet of many environmental challenges of our time.

However, growing conflict complexity makes it more difficult to identify win-win strategies for sustainable conflict resolution. Innovative methods are needed to help predict, understand, and resolve conflicts in cooperative ways. Agent-Based Modeling of Environmental Conflict and Cooperation

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examines computer modeling techniques as an important set of tools for assessing environmental and resource-based conflicts and, ultimately, for finding pathways to conflict resolution and cooperation. This book has two major goals. First, it argues that complexity science can be a unifying framework for professions engaged in conflict studies and resolution, including anthropology, law, management, peace studies, urban planning, and geography. Second, this book presents an innovative

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framework for approaching conflicts as complex adaptive systems by using many forms of environmental analysis, including system dynamics modeling, agent-based modeling, evolutionary game theory, viability theory, and network analysis. Known as VIABLE (Values and Investments from Agent-Based interaction and Learning in Environmental systems), this framework allows users to model advanced facets of conflicts—including institution building, coalition formation, adaptive learning, and the

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potential for future conflict—and conflict resolution based on the long-term viability of the actors' strategies. Written for scholars, students, practitioners, and policy makers alike, this book offers readers an extensive introduction to environmental conflict research and resolution techniques. As the result of decades of research, the text presents a strong argument for conflict modeling and reviews the most popular and advanced techniques, including system dynamics modeling, agent-based modeling,

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and participatory modeling methods. This indispensable guide uses NetLogo, a widely used and free modeling software package, to implement the VIABLE modeling approach in three case study applications around the world. Readers are invited to explore, adapt, modify, and expand these models to conflicts they hope to better understand and resolve.

Creativity Across Domains

Agent-Based Modeling of Environmental Conflict and Cooperation

A Step-by-step Guide

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A Systems Framework for Model Management in Organizations

Proceedings of the ... International Conference on Information Systems

A Participative Modeling Approach Supporting Change Management Efforts

In order to ensure the criteria for monitoring and managing the various problems and design for decision control, a mathematical description of exact human knowledge is required for the management of adaptive and complex systems. Decision Control, Management, and Support in Adaptive and Complex Systems: Quantitative Models presents an

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application and demonstration of a new mathematical technique for descriptions of complex systems. This comprehensive collection contains scientific results in the field of contemporary approaches to adaptive decision making that is essential for researchers, scholars, and students alike.

This book is designed for professionals and students in software engineering or information technology who are interested in understanding the dynamics of software development in order to assess and optimize their own process strategies. It explains how simulation of interrelated technical and social factors can provide a means for organizations to

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vastly improve their processes. It is structured for readers to approach the subject from different perspectives, and includes descriptive summaries of the best research and applications.

Proceedings of the NATO Advanced Research Workshop on Advances in Analytical and Numerical Groundwater Flow and Quality Modelling, Lisbon, Portugal, June 2-6, 1987

Published in 1985, Conceptualization in Psychotherapy is a valuable contribution to the field of Psychotherapy.

***Computer-Based Management of Complex Systems
Conceptualization in Psychotherapy
Faces of the Muse***

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Decision Control, Management, and Support in Adaptive and Complex Systems: Quantitative Models Recent Models and Applications Annual Book of ASTM Standards

Creativity Across Domains: Faces of the Muse sorts through the sometimes-confusing theoretical diversity that domain specificity has spawned. It also brings together writers who have studied creative thinkers in different areas, such as the various arts, sciences, and communication/leadership. Each contributor explains what is known about the cognitive

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processes, ways of conceptualizing and solving problems, personality and motivational attributes, guiding metaphors, and work habits or styles that best characterize creative people within the domain he or she has investigated. In addition, this book features: *an examination of how creativity is similar and different in diverse domains; *chapters written by an expert on creativity in the domain about which he or she is writing; *a chapter on creativity in psychology which examines patterns of

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performance leading to creative eminence in different areas of psychology; and *a final chapter proposing a new theory of creativity--the Amusement Park Theoretical Model. This book appeals to creativity researchers and students of creativity; cognitive, education, social, and developmental psychologists; and educated laypeople interested in exploring their own creativity.

For all aspects of managing contaminated sites - from diagnosis and site characterization to the development and

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implementation of site restoration programs - Management of Contaminated Site Problems provides you with all the tools and techniques you need. This excellent new resource on understanding and managing environmental contamination problems in general, and contaminated sites in particular, represents a collection and synthesis of modern issues. It defines common procedures used in the planning, development, and evaluation of corrective measures for potentially contaminated sites and facilities. It also includes

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example analyses and workplans for evaluating and implementing corrective measures.

Today's ever more complex world creates challenges for decision makers. This volume reviews the principles underlying complex decision making, the handling of uncertainties in dynamic environments, and the various modeling approaches. Beginning with a discussion of the underlying concepts, theories and empirical evidence, the book gives you a range of practical tools and techniques for decision making

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in complex environments and systems. Discover How to Apply DES to Problems Encountered in HTA Discrete event simulation (DES) has traditionally been used in the engineering and operations research fields. The use of DES to inform decisions about health technologies is still in its infancy. Written by specialists at the forefront of this area, Discrete Event Simulation for Health Technology Assessment is the first book to make all the central concepts of DES relevant for health technology assessment

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(HTA). Accessible to beginners, the book requires no prerequisites and describes the concepts with as little jargon as possible. The book first covers the essential concepts and their implementation. It next provides a fully worked out example using both a widely available spreadsheet program (Microsoft Excel) and a popular specialized simulation package (Arena). It then presents approaches to analyze the simulations, including the treatment of uncertainty; tackles the development of

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the required equations; explains the techniques to verify that the models are as efficient as possible; and explores the indispensable topic of validation. The book also covers a variety of non-essential yet handy topics, such as the animation of a simulation and extensions of DES, and incorporates a real case study involving screening strategies for breast cancer surveillance. This book guides you in leveraging DES in your assessments of health technologies. After reading the chapters in sequence, you will be able to

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construct a realistic model designed to help in the assessment of a new health technology.

EBOOK: Applied Systems Thinking for Health Systems Research: A Methodological Handbook

Calibration and Reliability in Groundwater Modelling

Complex Decision Making

Business Dynamics: Systems Thinking and Modeling for a Complex World with CD-ROM

The Usage of System Dynamics in Organizational Interventions

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Group Model Building

Today's leading authority on the subject of this text is the author, MIT Standish Professor of Management and Director of the System Dynamics Group, John D. Sterman. Sterman's objective is to explain, in a true textbook format, what system dynamics is, and how it can be successfully applied to solve business and organizational problems. System dynamics is both a currently utilized approach to organizational problem solving at the professional level, and a field of study in business, engineering, and social and physical sciences.

In spite of the theoretical knowledge of diagnosis and assessment, case conceptualization, and treatment

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planning imparted by their course instructors, most students are confused about the interrelationships of these processes in practice and are unable to apply what they have learned to the solution of thorny client problems. This book is designed to bridge the gap between classroom and clinic. In pragmatic fashion it walks beginners through the strategies needed to work with adults in outpatient settings and answers the questions they most frequently ask their clinical supervisors at the outset of their clinical apprenticeships. Three chapters succinctly summarize the crucial general information and skills that must be reflected in a clinician's approach to any client. Then, following a standard format that

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facilitates understanding and comparison, experts describe specific disorders one by one and present their own illustrative cases to point the way to effective targeting. Diagnosis, Conceptualization, and Treatment Planning for Adults will be an indispensable guide for mental health professionals in training who are facing their first assignments with clients.

New Directions in Human Information Behavior, co-edited by Drs. Amanda Spink and Charles Cole provides an understanding of the new directions, leading edge theories and models in human information behavior. Information behavior is conceptualized as complex human information

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related processes that are embedded within an individual's everyday social and life processes. The book presents chapters by an interdisciplinary range of scholars who show new directions that often challenge the established views and paradigms of information behavior studies. Beginning with an evolutionary framework, the book examines information behaviors over various epochs of human existence from the Palaeolithic Era and within pre-literate societies, to contemporary behaviors by 21st century humans. Drawing upon social and psychological science theories the book presents a more integrated and holistic approach to the understanding of information behaviors that include

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multitasking and non-linear longitudinal processes, individuals' information ground, information practices and information sharing, digital behaviors and human information organizing behaviors. The final chapter of the book integrates these new approaches and presents an overview of the key trends, theories and models for further research. This book is directly relevant to information scientists, librarians, social and evolutionary psychologists. Undergraduate and graduate students, academics and information professionals interested in human information behavior will find this book of particular benefit.

This book presents the latest tools, techniques, and

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solutions that decision makers use to overcome the challenges faced by their sustainable supply chains. Given the ever increasing significance of socio-economic and environmental factors, the management of sustainable supply chains has become a complex and dynamic task. Multiple and conflicting objectives of stakeholders including suppliers, manufacturers, service providers, and retailers add to the complexity of decisions that modern day managers of supply chains face. With the unprecedented technological developments and innovations at hand, sustainability can be maximized for all the activities of a supply chain including: service concept and product design, material

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sourcing and procurement, manufacturing processes, delivery of the final product, and end-of-life management of the product. Consequently, the sustainable supply chains' problems require a systematic and integrated approach. Modeling and simulation, in general, as well as system dynamics and agent-based modeling, in particular, have the capabilities to deal with the complexity of sustainable supply chain related problems. This book will appeal to professionals and researchers in the field.

The Models Approach

Reusable Problem Solving Components

Innovative Solutions for Sustainable Supply Chains

Theory, Methods, and Applications

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Theory and Practice

Augmented Reality, Virtual Reality, and Computer Graphics

In this book, Dr. Soofastaei and his colleagues reveal how all mining managers can effectively deploy advanced analytics in their day-to-day operations- one business decision at a time. Most mining companies have a massive amount of data at their disposal. However, they cannot use the stored data in any meaningful way. The powerful new business tool- advanced analytics enables many mining companies to aggressively leverage their data in key business decisions and processes with impressive results. From statistical analysis to machine learning and artificial

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intelligence, the authors show how many analytical tools can improve decisions about everything in the mine value chain, from exploration to marketing. Combining the science of advanced analytics with the mining industrial business solutions, introduce the “Advanced Analytics in Mining Engineering Book” as a practical road map and tools for unleashing the potential buried in your company’s data. The book is aimed at providing mining executives, managers, and research and development teams with an understanding of the business value and applicability of different analytic approaches and helping data analytics leads by giving them a business framework in which to assess the value, cost, and risk of potential analytical solutions. In

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addition, the book will provide the next generation of miners – undergraduate and graduate IT and mining engineering students – with an understanding of data analytics applied to the mining industry. By providing a book with chapters structured in line with the mining value chain, we will provide a clear, enterprise-level view of where and how advanced data analytics can best be applied. This book highlights the potential to interconnect activities in the mining enterprise better. Furthermore, the book explores the opportunities for optimization and increased productivity offered by better interoperability along the mining value chain – in line with the emerging vision of creating a digital mine with much-enhanced capabilities for modeling,

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simulation, and the use of digital twins – in line with leading “digital” industries.

This book constitutes the refereed proceedings of the 8th International Conference on Augmented Reality, Virtual Reality, and Computer Graphics, AVR 2021, held in Italy, in September 2021. Due to COVID-19 pandemic the conference was held virtually. The 38 full and 14 short papers were carefully reviewed and selected from 69 submissions. The papers discuss key issues, approaches, ideas, open problems, innovative applications and trends in virtual reality, augmented reality, mixed reality, applications in cultural heritage, in medicine, in education, and in industry.

The re-use of abstract models of problem solving is a

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major step towards cost-effective and quality-assured knowledge-based system development. The techniques are discussed in this text.

This text investigates the nature of impacts of information systems on the political world in the First World countries. The overall aim is to provide a framework on how to analyze implications of information technology (IT) on the political world and vice versa. This is illustrated by a study of economic modelling at the central and local levels of government.

Financial Technology (FinTech), Entrepreneurship, and Business Development

8th International Conference, AVR 2021, Virtual Event, September 7–10, 2021, Proceedings

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**System Design Modeling and Metamodeling
Proceedings of the 1989 International Conference of the
System Dynamics Society, Stuttgart, July 10–14, 1989
Proceedings of the ModelCARE'96 Conference Held in
Golden, Colorado, USA from 24 to 26 September 1996**

A compilation of knowledge collected from several researchers in the field of interactive systems, offering an overview of the different parts of the environment that must be taken into account to develop a quality interactive systems from the software engineering discipline.

Birgitte Snabe analyzes how system dynamics modeling

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can be used in learning processes that focus on the transfer of the insights and reasoning behind a strategy forming process. In a second step, she shows how it can support the refining of implementation plans. A case study in action research tradition completes the theoretical discussions. Its subject is the building up of a large international company's R&D resources in low-cost countries.

Patient safety in health systems has become more and more important as a theme in health research, and so it is not surprising to see a growing interest in applying systems thinking to healthcare. However there is a difficulty – health systems are very complex and

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constantly adapting to respond to core drivers and fit needs. How do you apply systems thinking in this situation, and what methods are available? National health authorities, international donors and research practitioners need to know the “how-to” of conducting health systems research from a systems thinking perspective. This book will fill this gap and provide a range of tools that give clear guidance of ways to carry out systems thinking in health. These methodologies include: System dynamics and causal loops Network analysis Outcome mapping Soft systems methodology

Written by an international team of experts in health research, this handbook will be essential reading for

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those working in or researching public health, health policy, health systems, global health, service improvement and innovation in practice.

This book examines emerging developments in the decision support system (DSS) field as it enters its third decade. The book is based on the NATO Advanced Study Institute on Recent Developments in Decision Support Systems held in Italy in June 1991. The contributors are an international assortment of active DSS researchers who offer diverse perspectives on DSSs and examine recent advances in the field. There are four major parts to the book. Part 1 is concerned with DSS foundations, including concepts, theories,

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frameworks and models. Part 2 examines DSS development in terms of tools and methods for building DSSs. Part 3 is concerned with DSS usage and evaluation. Part 4 concludes with presentations of specific DSS applications. Researchers, graduate students and practitioners in the DSS field will find that the book provides a stimulating and current treatment of DSS topics, helping to usher in the next decade of DSS advances.

Financial Decision Aid Using Multiple Criteria
Practical Strategies and Methods

Leverage Advanced Analytics in Mining Industry to Make
Better Business Decisions

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Management of Contaminated Site Problems

Environmental Modeling with Stakeholders

Information Systems in the Political World

This book constitutes the refereed proceedings of the 18th International Conference on Product-Focused Software Process Improvement, PROFES 2017, held in Innsbruck, Austria, in November/December 2017. The 17 revised full papers presented together with 10 short papers, 21 workshop papers, 3 posters and tool demonstrations papers, and 4 tutorials were carefully reviewed and selected from 72 submissions.

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The papers are organized in topical sections on : Agile software Development; Data science and analytics; Software engineering processes and frameworks; Industry relevant qualitative research; User and value centric approaches; Software startups; Serum; Software testing.

"This book has collected research from experts from around the world in a variety of sectors, in the form of case studies, frameworks, architectures, methodologies, and best practices to show the latest societal impacts on information systems development in its various applications"--Provided by publisher.

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New Trends in Software Process Modeling
18th International Conference, PROFES 2017,
Innsbruck, Austria, November 29–December 1,
2017, Proceedings

Product-Focused Software Process Improvement
Agent-Based Approaches in Economics and
Social Complex Systems IX

Mastering This Competency with Ease and
Confidence

Elements of the System Dynamics Method