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Managerial Decision Modeling with Spreadsheets REAL-WORLD DECISION MODELING W DMN Method and Style The MicroGuide to Process and Decision Modeling in BPMN/DMN Managerial Decision Modeling The Decision Model Decision Modeling and Behavior in Complex and Uncertain Environments The Little Book of Big Decision Models Decision Modeling with Microsoft Excel Decision Modeling in Policy Management Decision Modeling Managerial Decision Modeling with Spreadsheets, Selected Chapters Hierarchical Decision Modeling DMN Method and Style. 2nd Edition Decision Models in Engineering and Management Dmn Method and Style Evaluation and Decision Models with Multiple Criteria Dmn in Action with Openrules: A Practical Guide for Development of Business Rules and Decision Management Applications Using Decision Model and Nota Managerial Decision Modeling Managerial Decision Modeling Ethnographic Decision Tree Modeling Goal-Oriented Decision Modeling with Openrules: A Practical Guide for Development of Operational Business Decision Models Using Openrules and Excel Handbook of Marketing Decision Models Decision Modeling in Policy Management Encyclopedia of Decision Making and Decision Support Technologies Policy Decision Modeling with Fuzzy Logic Decision Models in Engineering and Management Intelligent Decision Technologies Modeling and Computation in Engineering III Spreadsheet Modeling for Business Decisions Game Equilibrium Models III Decision Models for Business: Decision Trees Managerial Decision Modeling Policy Decision Modeling with Fuzzy Logic Asset Condition, Information Systems and Decision Models Collaborative Modeling and Decision-Making for Complex Energy Systems Information and Communication Technologies for Agriculture—Theme III: Decision Applications of Operations Research and Management Science for Military Decision Making Systems, Decision and Control in Energy III Metaheuristics for Business Analytics

Managerial Decision Modeling with Spreadsheets 2013 for courses on decision modeling through the use of spreadsheets the perfect balance between decision modeling and spreadsheet use it s important that textbooks support decision modeling courses by combining student s ability to logically model and analyze diverse decision making scenarios with software based solution procedures balakrishnan offers the perfect balance of the decision modeling process and the use of spreadsheets to set up and solve decision models the third edition has been updated to reflect the latest version of excel

REAL-WORLD DECISION MODELING W 2016-11-08 organizations make thousands of automated operational decisions every week from pricing of products to determining which customers get automatic approval to customizing website navigation how well they make these decisions drives their profitability makes or breaks their reputation and powers customer satisfaction

DMN Method and Style 2024-01-03 comprehensive guide to dmn the standard for low code model based decision automation completely revised from 2nd edition updated to draft dmn 1 6 version includes dmn cookbook many practical examples with 271 diagrams and tables

The MicroGuide to Process and Decision Modeling in BPMN/DMN 2014-10-10 the most complete and integrated coverage of bpmn 2 0 and dmn including authoritative frameworks for integrating decision and process modeling in this third edition of the successful microguide to bpmn james taylor joins tom debevoise to create an integrated guide to process and decision modeling in bpmn dmn starting with the basics and progressing to a comprehensive framework for modeling decision responsive processes the microguide uses simple language aided with concrete use cases and scenarios to teach the user how to properly use these powerful notations business process management helps organizations achieve many of their operational goals and deliver on their business models it creates visibility allowing fine grained monitoring and control of day to day operations creating process models in bpmn is a critical aspect of bpm helping discover optimize execute and manage an organization s business processes many organizations use decision management to improve process outcomes by focusing on the way decisions are made within and across those processes with the addition of the decision model and notation standard dmn organizations now have a rigorous way to graphically model decisions moreover dmn decision models can be combined with bpmn process models for unparalleled synergy covering important topics related to business process and decision modeling the microguide is the only authoritative book that addresses these topics and more the book covers quick guides to omg s bpmn 2 0 and dmn 1 0 notation common patterns based on proven design decision modeling patterns event processing patterns most comprehensive framework for integrating decision event and process modeling process and decision discovery through effective requirements gathering techniques quotations george barlow executive vice president agilepoint software with this third edition tom and his coauthor james taylor bring a new much needed and appreciated additional perspective to process discovery and design that of decision modeling if you want a practical guide with excellent examples of how to use the standard modeling notation for bpm and to learn the importance of modeling decision rules and techniques for doing that james sinur net net this book will stand the test of time in that it will be germane to most process

Managerial Decision Modeling 2011 in the current fast paced and constantly changing business environment it is more important than ever for organizations to be agile monitor business performance and meet with increasingly stringent compliance requirements written by pioneering consultants and bestselling authors with track records of international success the decision model a

The Decision Model 2009-10-27 this text examines new research at the interface of operations research behavioral and cognitive sciences and decision analysis from the cognitive behaviorist who collects empirical evidence as to how people make decisions to the engineer and economist who are the consumers of such understanding the reader encounters the familiar traveling salesman problem and prisoner s dilemma how agricultural decisions are made in argentina s pampas region and some social goals that come into play as an element of rational decision making in these 14 self contained chapters broad topics covered include the integration of decision analysis and behavioral models innovations in behavioral models exploring descriptive behavior models and experimental studies

Decision Modeling and Behavior in Complex and Uncertain Environments 2008-07-20 leaders and managers want quick answers quick ways to reach solutions ways and means to access knowledge that won t eat into their precious time and quick ideas that deliver a big result the little book of big decision models cuts through all the noise and gives managers access to the very best decision making models that they need to to keep things moving forward every model is quick and easy to read and delivers the essential information and know how quickly efficiently and memorably

The Little Book of Big Decision Models 2015-11-17 cd rom contains premium solver for education solver table add in software extend lt 4 0 simulation software treeplan glp a graphic visualization program excel templates for in text examples

Decision Modeling with Microsoft Excel 2001 the last decade has experienced major societal challenges at the intersection of technological systems and policy making prevalent examples are the liberalization of energy and telecommunications markets the public aversion towards nuclear power plants the development of high speed trains the debates about global warming and sustainability the development of intelligent vehicle systems and the controversies concerning the location of waste depositories airports and energy systems these challenges coupled with the call from industry for a systems engineering oriented approach to policy analysis motivated delft university of technology to launch the first european school of systems engineering policy analysis and management sepa the purpose was to educate engineering oriented policy analysts in bridging the gap between

engineering systems and policy decision making processes both for the public and private sector up to now more than 500 first year students and 30 ph d students have enrolled in the program in 1993 i set up a class called quantitative methods for problem solving which had to address the most relevant issues in decision making for policy management such as linear and non linear optimization multiattribute utility theory multicriteria decision making concepts from game theory outranking relations and probabilistic influence diagrams

Decision Modeling in Policy Management 2013-12-01 managerial decision modeling with spreadsheets selected chapters

Decision Modeling 1985-01-01 this volume developed in honor of dr dundar f kocaoglu aims to demonstrate the applications of the hierarchical decision model hdm in different sectors and its capacity in decision analysis it is comprised of essays from noted scholars academics and researchers of engineering and technology management around the world this book is organized into five parts technology policy planning strategic technology planning technology assessment application extensions and methodology extensions dr dundar f kocaoglu is one of the pioneers of multiple decision models using hierarchies and creator of the hdm in decision analysis hdm is a mission oriented method for evaluation and or selection among alternatives a wide range of alternatives can be considered including but not limited to different technologies projects markets jobs products cities to live in houses to buy apartments to rent and schools to attend dr kocaoglu s approach has been adopted for decision problems in many industrial sectors including electronics research and development education government planning agriculture energy technology transfer semiconductor manufacturing and has influenced policy locally nationally and internationally moreover his students developed advanced tools and software applications to further improve and enhance the robustness of the hdm approach dr kocaoglu has made many contributions to the field of engineering and technology management during his tenure at portland state university he founded the engineering and technology management program where he served as program director and later department chair he also started the portland international conference on management of engineering and technology picmet which organizes an annual conference in international locations such as korea turkey south africa thailand and japan his teaching has won awards and resulted in a strong sense of student loyalty among his students even decades later through his academic work and research dr kocaoglu has strongly supported researchers of engineering management and has provided tremendous service to the field this volume recognizes and celebrates dr kocaoglu s profound contributions to the field and will serve as a resource for generations of researchers practitioners and students

Managerial Decision Modeling with Spreadsheets, Selected Chapters 2019-12-04 business oriented guide to the new decision model and notation standard completely revised and updated to dmn 1 2 many practical examples 171 tables and diagrams

Hierarchical Decision Modeling 2015-07-25 providing a comprehensive overview of various methods and applications in decision engineering this book presents chapters written by a range experts in the field it presents conceptual aspects of decision support applications in various areas including finance vendor selection construction process management water management and energy agribusiness production scheduling and control and waste management in addition to this a special focus is given to methods of multi criteria decision analysis decision making in organizations is a recurrent theme and is essential for business continuity managers from various fields including public private industrial trading or service sectors are required to make decisions consequently managers need the support of these structured methods in order to engage in effective decision making this book provides a valuable resource for graduate students professors and researchers of decision analysis multi criteria decision analysis and group decision analysis it is also intended for production engineers civil engineers and engineering consultants

DMN Method and Style. 2nd Edition 2018-09-28 business decision management is a technology assisted practice of defining analyzing and maintaining the decision logic that drives interactions with customers suppliers and employees for many years subject matter experts created text based requirements and handed them over to programmers for implementation on a business rule engine the decision model and notation dmn now offers a better way decision logic precisely defined and maintained by subject matter experts themselves using business friendly graphical models that can be automatically validated for completeness and consistency since dmn is an industry standard the meaning of a decision model does not depend on the tool used to create it or some consultant s methodology it s defined by a specification and best of all dmn models are directly executable so what you see is what you get dmn method and style is your guide to the new standard and to the features and benefits of business decision management it explains not only the shapes and symbols used to describe end to end decision logic in a decision requirements diagram drd but how to properly decompose the top level decision into a network of supporting decisions and input data it also shows you how to define the detailed logic of each decision in the diagram using decision tables literal expressions and reusable logic blocks called business knowledge models like its predecessor bpmn method and style the book suggests best practices in the form of style rules and a modeling methodology for capturing the end to end decision logic in a way that is complete consistent and clear from the printed drd and tabular expressions alone

Decision Models in Engineering and Management 2015-01-05 formal decision and evaluation models are so widespread that almost no one can pretend not to have used or suffered the consequences of one of them this book is a guide aimed at helping the analyst to choose a model and use it consistently a sound analysis of techniques is proposed and the presentation can be extended to most decision and evaluation models as a decision aiding methodology

Dmn Method and Style 2016-01-15 would you like to know how a rules based decision model can be constructed by a non programmer do you plan to build an operational decision model for your own business environment this guide explains how to do it in a step by step easy to understand style it consists of a series of dialog sessions in which an author

explains basic concepts and a reader asks questions and implements the concepts as a result you will participate in building complete decision models being able to learn practical decision modeling techniques by example the guide is based on the decision model and notation dmn standard and utilizes the popular open source system commonly known as openrules the guide is accompanied by open source software which allows the reader to download and analyze all considered decision models the reader can make changes in any provided decision model or write a new one using only ms excel then the reader may execute a modified decision model and analyze the produced results dmninaction com

Evaluation and Decision Models with Multiple Criteria 2006-06-07 this book fills a void for a balanced approach to spreadsheet based decision modeling in addition to using spreadsheets as a tool to quickly set up and solve decision models the authors show how and why the methods work and combine the user s power to logically model and analyze diverse decision making scenarios with software based solutions the book discusses the fundamental concepts assumptions and limitations behind each decision modeling technique shows how each decision model works and illustrates the real world usefulness of each technique with many applications from both profit and nonprofit organizations the authors provide an introduction to managerial decision modeling linear programming models modeling applications and sensitivity analysis transportation assignment and network models integer goal and nonlinear programming models project management decision theory queuing models simulation modeling forecasting models and inventory control models the additional material files chapter 12 excel files for each chapter excel modules for windows excel modules for mac 4th edition errata can be found at degruyter com view product 486941

Dmn in Action with Openrules: A Practical Guide for Development of Business Rules and Decision Management Applications Using Decision Model and Nota 2017-02-16 the book aims to shed light on some of the unexplored aspects of managerial decision modeling it provides the students with the basic information related to this subject managerial decision model refers to a decision model that contains an action axiom this axiomatic system has four steps namely formulate then evaluate appraise and finally refine this text is a valuable compilation of topics ranging from the basic to the most complex theories and principles in the field of managerial decision modeling it unfolds the innovative aspects of managerial decision modeling which will be crucial for the holistic understanding of the subject matter this textbook is meant for students who are looking for an elaborate reference text on the subject

Managerial Decision Modeling 2017-08-07 why do people in a certain group behave the way they do and more importantly what specific criteria was used by the group in question this book presents a method for answering these questions

Managerial Decision Modeling 2017-04-21 nowadays business decision modeling is one of the major technological and methodological approaches that support decision making processes across a wide range of business problems from loan origination and insurance underwriting to clinical guidelines and product recommendations business decision modeling is oriented to subject matter experts who build and maintain operational decision models incorporated into modern enterprise architectures this guide explains how to create and maintain operational decision models for your own business environment in a step by step easy to understand style it consists of a series of dialog sessions in which an author explains major concepts and a reader asks questions and implements the concepts as a result you will participate in building complete decision models being able to learn practical decision modeling techniques by example starting with a simple decision model you will learn how to represent more complex decision logic using more and more complex examples you will end up with a deep understanding of practical decision modeling methods and even learn how to build and use domain specific libraries of decision models the guide is based on the goal oriented approach that provides an intuitive and simple way for building decision models starting with high level business goals and subgoals you will be able to represent their business logic using excel based decision tables to create and execute test cases and to analyze produced decisions the guide is accompanied by open source software commonly known as openrules along with the software you will be able to download execute and analyze all considered decision models yourself directly in excel you can make changes in any provided decision model or create and execute your own decision models openrules com book htm

Ethnographic Decision Tree Modeling 1989-09 marketing models is a core component of the marketing discipline the recent developments in marketing models have been incredibly fast with information technology e g the internet online marketing e commerce and customer relationship management crm creating radical changes in the way companies interact with their customers this has created completely new breeds of marketing models but major progress has also taken place in existing types of marketing models the handbook of marketing decision models presents the state of the art in marketing decision models dealing with new modeling areas such as customer relationship management customer value and online marketing but also describes recent developments in other areas in the category of marketing mix models the latest models for advertising sales promotions sales management and competition are dealt with new developments are presented in consumer decision models models for return on marketing marketing management support systems and in special techniques such as time series and neural nets not only are the most recent models discussed but the book also pays attention to the implementation of marketing models in companies and to applications in specific industries

Goal-Oriented Decision Modeling with Openrules: A Practical Guide for Development of Operational Business Decision Models Using Openrules and Excel 2019-02-21 as effective organizational decision making is a major factor in a company s success a comprehensive account of current available research on the core concepts of the decision support agenda is in high demand by academicians and professionals through 110 authoritative contributions by over 160 of the world s leading experts the encyclopedia of decision making and

decision support technologies presents a critical mass of research on the most up to date research on human and computer support of managerial decision making including discussion on support of operational tactical and strategic decisions human vs computer system support structure individual and group decision making and multi criteria decision making

Handbook of Marketing Decision Models 2008-09-11 this book introduces the concept of policy decision emergence and its dynamics at the sub systemic level of the decision process this level constitutes the breeding ground of the emergence of policy decisions but remains unexplored due to the absence of adequate tools it is a nonlinear complex system made of several entities that interact dynamically the behavior of such a system cannot be understood with linear and deterministic methods the book presents an innovative multidisciplinary approach that results in the development of a policy decision emergence simulation model podesim this computational model is a multi level fuzzy inference system that allows the identification of the decision emergence levers this development represents a major advancement in the field of public policy decision studies it paves the way for decision emergence modeling and simulation by bridging complex systems theory multiple streams theory and fuzzy logic theory

Decision Modeling in Policy Management 1997 providing a comprehensive overview of various methods and applications in decision engineering this book presents chapters written by a range experts in the field it presents conceptual aspects of decision support applications in various areas including finance vendor selection construction process management water management and energy agribusiness production scheduling and control and waste management in addition to this a special focus is given to methods of multi criteria decision analysis decision making in organizations is a recurrent theme and is essential for business continuity managers from various fields including public private industrial trading or service sectors are required to make decisions consequently managers need the support of these structured methods in order to engage in effective decision making this book provides a valuable resource for graduate students professors and researchers of decision analysis multi criteria decision analysis and group decision analysis it is also intended for production engineers civil engineers and engineering consultants

Encyclopedia of Decision Making and Decision Support Technologies 2008-04-30 intelligent decision technologies idt seeks an interchange of research on intelligent systems and intelligent technologies which enhance or improve decision making in industry government and academia the focus is interdisciplinary in nature and includes research on all aspects of intelligent decision technologies from fundamental development to the applied system this volume represents leading research from the third kes international symposium on intelligent decision technologies kes idt 11 hosted and organized by the university of piraeus greece in conjunction with kes international the symposium was concerned with theory design development implementation testing and evaluation of intelligent decision systems topics include decision making theory intelligent agents fuzzy logic multi agent systems bayesian networks optimization artificial neural networks genetic algorithms expert systems decision support systems geographic information systems case based reasoning time series knowledge management systems rough sets spatial decision analysis and multi criteria decision analysis these technologies have the potential to revolutionize decision making in many areas of management healthcare international business finance accounting marketing military applications ecommerce network management crisis response building design information retrieval and disaster recovery for a better future the symposium was concerned with theory design development implementation testing and evaluation of intelligent decision systems topics include decision making theory intelligent agents fuzzy logic multi agent systems bayesian networks optimization artificial neural networks genetic algorithms expert systems decision support systems geographic information systems case based reasoning time series knowledge management systems rough sets spatial decision analysis and multi criteria decision analysis these technologies have the potential to revolutionize decision making in many areas of management healthcare international business finance accounting marketing military applications ecommerce network management crisis response building design information retrieval and disaster recovery for a better future

Policy Decision Modeling with Fuzzy Logic 2020-12-18 the demands of modeling and computation in engineering are rapidly growing as a multidisciplinary area with connections to engineering mathematics and computer science modeling and computation in engineering iii contains 45 technical papers from the 3rd international conference on modeling and computation in engineering cmce 2014 28 29 june 2014 including 2014 hydraulic engineering and environment workshop heew 2014 the conference serves as a major forum for researchers engineers and manufacturers to share recent advances discuss problems and identify challenges associated with modeling technology simulation technology and tools computation methods and their engineering applications the contributions showcase recent developments in the areas of civil engineering hydraulic engineering environmental engineering and systems engineering and other related fields the contributions in this book mainly focus on advanced theories and technology related to modeling and computation in civil engineering hydraulic structures hydropower and management coastal reclamation and environmental assessment flood control irrigation and drainage water resources and water treatment environmental management and sustainability waste management and environmental protection pollution and control geology and geography mechanics in engineering numerical software and applications although these papers represent only modest advances toward modeling and computation problems in engineering some of the technologies might be key factors in the success of future engineering advances it is expected that this book will stimulate new ideas methods and applications in ongoing engineering advances modeling and computation in engineering iii will be invaluable to academics and professionals in civil engineering hydraulic engineering and environmental engineering

Decision Models in Engineering and Management 2016-10-06 spreadsheet modeling for business decisions focuses on five fundamental topics of business decision modeling emphasizing the effective communication of results to the appropriate business decision maker the topics include spreadsheet modeling data management and modeling simulation

and linear regression modeling and decision making under uncertainty the text strives to educate managers in the process of becoming more effective and efficient problem solvers by providing the most important and useful topics within business decision models while at the same time preparing students to apply those topics to real world problems to integrate the use of common software packages into their analysis and solutions and to prepare written and verbal conclusions from that analysis

Intelligent Decision Technologies 2011-11-19 the four volumes of game equilibrium models present applications of non cooperative game theory problems of strategic interaction arising in biology economics political science and the social sciences in general are treated in 42 papers on a wide variety of subjects internationally known authors with backgrounds in various disciplines have contributed original research the reader finds innovative modelling combined with advanced methods of analysis the four volumes are the outcome of a research year at the center for interdisciplinary studies of the university of bielefeld the close interaction of an international interdisciplinary group of researchers has produced an unusual collection of remarkable results of great interest for everybody who wants to be informed on the scope potential and future direction of work in applied game theory volume iii strategic bargaining contains ten papers on game equilibrium models of bargaining all these contributions look at bargaining situations as non cooperative games general models of two person and n person bargaining are explored

Modeling and Computation in Engineering III 2014-06-11 this book is aimed for undergraduate students in economics engineering operations research or other disciplines dealing with a branch of optimization theory decision trees it is intended to be essentially self contained and should be suitable for classroom work or self study illustrative examples are given at almost every step some stress is laid on the concept of a probabilistic model for the mechanism generating a set of observed data leading to the natural application of probability theory to answer questions of interest in optimization decision trees is a suitable topic for an undergraduate course but it is rarely taught none of the material treated is original hopefully the order and methof of treatment will help to minimize difficulties in its use in practical problems

Spreadsheet Modeling for Business Decisions 2008 this book introduces the concept of policy decision emergence and its dynamics at the sub systemic level of the decision process this level constitutes the breeding ground of the emergence of policy decisions but remains unexplored due to the absence of adequate tools it is a nonlinear complex system made of several entities that interact dynamically the behavior of such a system cannot be understood with linear and deterministic methods the book presents an innovative multidisciplinary approach that results in the development of a policy decision emergence simulation model podesim this computational model is a multi level fuzzy inference system that allows the identification of the decision emergence levers this development represents a major advancement in the field of public policy decision studies it paves the way for decision emergence modeling and simulation by bridging complex systems theory multiple streams theory and fuzzy logic theory

Game Equilibrium Models III 2013-03-09 asset condition information systems and decision models is the second volume of the engineering asset management review series the manuscripts provide examples of implementations of asset information systems as well as some practical applications of condition data for diagnostics and prognostics the increasing trend is towards prognostics rather than diagnostics hence the need for assessment and decision models that promote the conversion of condition data into prognostic information to improve life cycle planning for engineered assets the research papers included here serve to support the on going development of condition monitoring standards this volume comprises selected papers from the 1st 2nd and 3rd world congresses on engineering asset management which were convened under the auspices of iseam in collaboration with a number of organisations including cieam australia asset management council australia bindt uk and chinese academy of sciences beijing university of chemical technology china asset condition information systems and decision models will be of particular interest to finance maintenance and operations personnel whose roles directly affect the capability value of engineering asset base as well as asset managers in both industry and government

Decision Models for Business: Decision Trees 2015-03-25 this volume provides the fundamentals of involving stakeholders in collaborative modeling of energy systems including the technical subsystem as well as its economic social environmental and political subsystems it presents a stakeholder assisted modeling and policy design sam pd framework that can be applied by energy system developers managers and decision makers to involve a wide range of stakeholders in group model building on a larger scale by illustrating the capabilities of the sam pd framework the book introduces an actual case study of the cape wind offshore wind energy project this case study details the process by which the author brought together a large number of stakeholders to jointly model the cape wind energy system and its broader implications for the regional energy picture and the regional economy and environment it also offers the most recent in depth analysis of the cape wind project contents systems analysisthe role of expert analysis in complex systems decisionssystems representation and decision makingstakeholder assisted modeling and policy designthe cape wind offshore wind energy projectstakeholder assisted modeling of cape windlearning from cape wind readership students researchers in system engineering energy studies and public policy keywords engineering systems stakeholders involvement stakeholder assisted modeling and policy design sam pd cape wind energy systemkey features this is a unique volume that combines a rich theoretical framework for involving stakeholders in engineering decision making with an actual in depth case studythe presented frameworks are highly innovative and easy to implement in current decision making processes

Managerial Decision Modeling 2002 this volume is the third iii of four under the main themes of digitizing agriculture and information and communication technologies ict the four volumes cover rapidly developing processes including sensors i data ii decision iii and actions iv volumes are related to digital transformation within agricultural production and provision systems and in the context of smart farming technology and knowledge based agriculture content spans broadly from data mining and visualization to big data analytics and

decision making alongside with the sustainability aspects stemming from the digital transformation of farming the four volumes comprise the outcome of the 12th efita congress also incorporating chapters that originated from select presentations of the congress the focus of this book iii is on the transformation of collected information into valuable decisions and aims to shed light on how best to use digital technologies to reduce cost inputs and time toward becoming more efficient and transparent fourteen chapters are grouped into 3 sections the first section of is dedicated to decisions in the value chain of agricultural products the next section titled primary production elaborates on decision making for the improvement of processes taking place with the farm under the implementation of ict the last section is devoted to the development of innovative decision applications that also consider the protection of the environment recognizing its importance in the preservation and considerate use of resources as well as the mitigation of adverse impacts that are related to agricultural production planning and modeling the assessment of agricultural practices can provide farmers with valuable information prior to the execution of any task this book provides a valuable reference for them as well as for those directly involved with decision making in planning and assessment of agricultural production specific advances covered in the volume modelling and simulation of ict based agricultural systems farm management information systems fmis planning for unmanned aerial systems agri robotics awareness and planning smart livestock farming sustainable strategic planning in agri production food business information systems

Policy Decision Modeling with Fuzzy Logic 2021 based on many years of applied research modeling and educating future decision makers the authors have selected the critical set of mathematical modeling skills for decision analysis to include in this book the book focuses on the model formulation and modeling building skills as well as the technology to support decision analysis the authors cover many of the main techniques that have been incorporated into their three course sequence in mathematical modeling for decision making in the department of defense analysis at the naval postgraduate school the primary objective of this book is illustrative in nature it begins with an introduction to mathematical modeling and a process for formally thinking about difficult problems illustrating many scenarios and illustrative examples the book incorporates the necessary mathematical foundations for solving these problems with military applications and related military processes to reinforce the applied nature of the mathematical modeling process

Asset Condition, Information Systems and Decision Models 2012-11-05 this book describes new energy saving methods and technologies for heat power engineering the book is devoted to topical issues of energy and related industries leading ukrainian scientists from both scientific institutes and educational universities took part in its creation the research results are presented in 6 parts electrical engineering heat power engineering nuclear power engineering fossil fuels cybersecurity and computer science environmental safety results of regulating of operating modes and applicability of model checking technique in power systems are showed separate block of questions regarding the functioning of nuclear power plants their waste and preventive measures of protection against negative effects on living organisms including for example the chernobyl nuclear power plant is considered the results of the peculiarities of the extraction purification and use of fossil fuels are presented in some chapters presented the results on improving the cybersecurity of energy systems and its resilience to various threats including the use of 5g technology traditionally for this series issues of ecological safety the impact of different energy systems on the environment and its protection are considered a book is for researchers engineers as well as lecturers and postgraduates of higher education institutions dealing with energy sector power systems ecological safety etc

Collaborative Modeling and Decision-Making for Complex Energy Systems 2011-01-27 this essential metaheuristics tutorial provides descriptions and practical applications in the area of business analytics it addresses key problems in predictive and prescriptive analysis while also illustrating how problems that arise in business analytics can be modelled and how metaheuristics can be used to find high quality solutions readers will be introduced to decision making problems for which metaheuristics offer the most effective solution technique the book not only shows business problem modelling on a spreadsheet but also how to design and create a visual basic for applications code

Information and Communication Technologies for Agriculture—Theme III: Decision 2022-04-27

Applications of Operations Research and Management Science for Military Decision Making 2019-08-28

Systems, Decision and Control in Energy III 2021-11-30

Metaheuristics for Business Analytics 2017-12-01

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