



New Methods For Robust Science And Technology Planning

Carolyn Wong



New Methods For Robust Science And Technology Planning:

New Methods for Robust Science and Technology Planning Robert J. Lempert, James Bonomo, 1998 RAND researchers have conducted a successful proof of concept demonstration for the Defense Advanced Research Projects Agency DARPA of two new methods for science and technology S T planning These methods HyperForum a facilitated Web based collaborative exercise conducted in a carefully crafted information rich online environment and Exploratory Modeling a new approach to generating systematic quantitative comparisons among alternative policy decisions without relying on imperfect predictions of the future exploit new information technologies

New Methods for Robust Science and Technology Planning, 1998 In the fall of 1996 RAND researchers conducted a successful proof of concept demonstration for the Defense Advanced Research Projects Agency DARPA of new methods for science and technology S T planning These methods exploit new information technologies in order to

- 1 improve the quality of the S T planning process by using online computer assisted decision support tools that make relevant information more easily available to expert panelists meeting over the World Wide Web and help panelists include and compensate for the effects of uncertainty by treating an S T plan as a portfolio of technology investments hedged against a wide range of plausible futures
- 2 Provide a lasting electronic archive of the expert discussions and other information that go into building an S T plan
- 3 Lower the travel related costs and scheduling constraints of the current planning process by supplementing face to face expert panel meetings with asynchronous meetings over the World Wide Web

The demonstration made use of two new RAND methodologies HyperForum a facilitated Web based collaborative exercise conducted in a carefully crafted information rich online environment and Exploratory Modeling a new approach to generating systematic quantitative comparisons among alternative policy decisions without relying on imperfect predictions of the future This documented briefing describes that demonstration It should be of interest to decisionmakers responsible for choosing managing and justifying portfolios of science and technology research projects in the Department of Defense and other federal agencies and in the private sector In addition it should be informative to those readers interested in how new information technologies can provide new methods for planning and decisionmaking under uncertainty

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Perspectives on Uncertainty and Risk Marjolein B.A. van Asselt, 2013-03-09 This volume is intended to stimulate a change in the practice of decision support advocating an interdisciplinary approach centred on both social and natural sciences both theory and practice It addresses the issue of analysis and management of uncertainty and risk in decision support corresponding to the aims of Integrated Assessment A pluralistic method is necessary to account for legitimate plural interpretations of uncertainty and multiple risk perceptions A wide range of methods and tools is presented to contribute to adequate and effective pluralistic uncertainty management and risk analysis in decision support endeavours Special attention is given to the development of one such approach the Pluralistic framework for Integrated uncertainty Management and risk Analysis PRIMA of which the practical value is explored in the context of the Environmental Outlooks produced by the Dutch Institute for Public Health and Environment RIVM Audience This book will be of interest to researchers and practitioners whose work involves decision support uncertainty management risk analysis environmental planning and Integrated Assessment

Intelligent Information Systems and Knowledge Management for Energy: Applications for Decision Support, Usage, and Environmental Protection Metaxiotis, Kostas, 2009-08-31 This book analyzes the need for a holistic approach for the construction and engineering of cities and societies Provided by publisher Societal Adaptation to Climate Variability and Change Sally M. Kane, Gary W. Yohe, 2000-05-31 Changes in climate and climate variability have an effect on people's behaviour around the world and public institutions have an important part to play in influencing our ability to respond to and plan for climate risk We may be able to reduce climate risk by seeking to mitigate the threat on the one hand and by adapting to a changed climate on the other Another theme of the book is the integrated role of adaptation and mitigation in framing issues and performing analyses Adaptation costs fall most heavily on the poor and special attention needs to be paid to adaptation by the poorest populations An integrating framework is also presented to provide the context for an expansive typology of terms to apply to adaptation The 12 papers collected here use methods from a variety of

disciplines and focus on different time frames for decision making from short term to the very long term Readership Technically trained readers familiar with the policy issues surrounding climate change and interested in learning the scientific underpinnings of issues related to societal adaptation

Adaptive Agents, Intelligence, and Emergent Human Organization National Academies of Sciences and Engineering, 2002-01-01

Innovative Research Methodologies in Management Luiz Moutinho, Mladen Sokele, 2017-12-05 A seminal collection of research methodology themes this two volume work provides a set of key scholarly developments related to robustness allowing scholars to advance their knowledge of research methods used outside of their own immediate fields With a focus on emerging methodologies within management key areas of importance are dissected with chapters covering statistical modelling new measurements digital research biometrics and neuroscience the philosophy of research computer modelling approaches and new mathematical theories among others A genuinely pioneering contribution to the advancement of research methods in business studies Innovative Research Methodologies in Management presents an analytical and engaging discussion on each topic By introducing new research agendas it aims to pave the way for increased application of innovative techniques allowing the exploration of future research perspectives Volume II explores a range of research methodologies including the Spatial Delphi and Spatial Shang Virtual Reality the Futures Polygon and Neuroscience research

Emergent Information Technologies and Enabling Policies for Counter-Terrorism Robert L. Popp, John Yen, 2006-09-18 Explores both counter terrorism and enabling policy dimensions of emerging information technologies in national security After the September 11th attacks connecting the dots has become the watchword for using information and intelligence to protect the United States from future terrorist attacks Advanced and emerging information technologies offer key assets in confronting a secretive asymmetric and networked enemy Yet in a free and open society policies must ensure that these powerful technologies are used responsibly and that privacy and civil liberties remain protected Emergent Information Technologies and Enabling Policies for Counter Terrorism provides a unique integrated treatment of cutting edge counter terrorism technologies and their corresponding policy options Featuring contributions from nationally recognized authorities and experts this book brings together a diverse knowledge base for those charged with protecting our nation from terrorist attacks while preserving our civil liberties Topics covered include Counter terrorism modeling Quantitative and computational social science Signal processing and information management techniques Semantic Web and knowledge management technologies Information and intelligence sharing technologies Text data processing and language translation technologies Social network analysis Legal standards for data mining Potential structures for enabling policies Technical system design to support policy Countering terrorism in today s world requires innovative technologies and corresponding creative policies the two cannot be practically and realistically addressed separately Emergent Information Technologies and Enabling Policies for Counter Terrorism offers a comprehensive examination of both areas serving as an essential resource for students practitioners

researchers developers and decision makers Army Science and Technology Master Plan United States. Department of the Army,1998 **How Will the E-explosion Affect how We Do Research?** Carolyn Wong,2003 Will the enormous increase in the use of e mail the Internet and other Web resources lead to a new era in collalorative research The National Academy of Sciences' Decadal Plan for Aeronautics United States. Congress. House. Committee on Science. Subcommittee on Space and Aeronautics,2007 *New Forces at Work* Steven W. Popper,Caroline S. Wagner,Eric Victor Larson,1998 As part of the effort to produce the fourth National Critical Technologies Report the Office of Science and Technology Policy in the Executive Office of the President asked a research team from RAND s Critical Technologies Institute now named Science and Technology Policy Institute to engage business and industry leaders explicitly in a discussion of the issue of critical technologies by gathering private sector views on what technologies are appropriate to consider under this rubric and why The primary substantive input was elicited through extended detailed interviews conducted individually usually with one firm s senior executive per session on site in most cases The report presents and analyzes interviewees responses to what technologies they consider to be critical to their firm or industry explores the question of what critical technology means reports interviewees assessments of the status of U S efforts and performance in the areas of technology they deemed critical considers the respective roles of industry universities and government in contributing to and sustaining the U S technology base suggests a process whereby the dialogue between government and industry on the public policy issues relating to technology might be made more integral and informative to the activities of both The responses of many of the interviewees emphasized the aspect of technology as process over technology as product In line with this vision the authors propose a critical technologies review process that would enable wider more meaningful and ongoing communication among industry government and universities on technology issues **Department of Energy's plan for climate change technology programs : hearing ,** *Evaluating Future Force Options for the U.S. Army* John D. Pinder,2000 The purpose of this dissertation is to introduce and demonstrate a new approach to supporting high level decisions This new methodology the hybrid interactive multiple attribute exploratory HIMAX process combines multiple attribute decision making with exploratory modeling to integrate expert opinion to evaluate diverse options with the intent of generating useful insights The HIMAX process is demonstrated in this dissertation through an illustrative analysis of future military forces The specific options considered which include heavy armored medium weight and light infantry forces as well as tactical aircraft alone and in combination with special operations forces are evaluated and compared across a wide spectrum of ground oriented missions The unique contribution of this work is the HIMAX process itself and the mix of capabilities that it brings together especially the ability to explore implications of divergent minority opinions This dissertation should be of interest to high level decision makers in the Army and the Department of Defense specifically but also in other large private and public organizations It should also be of interest to scholars of decision analysis and operations research and practitioners of policy

analysis defense planning and business strategy *American Book Publishing Record Cumulative 1998* R R Bowker Publishing,1999-03 **Department of Energy's Plan for Climate Change Technology Programs** United States. Congress. House. Committee on Science. Subcommittee on Energy,2007 **Federal Plan for Cyber Security and Information Assurance Research and Development** National Science and Technology Council (U.S.) Interagency Working Group on Cyber Security and Information Assurance,2006

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attachment of rods, hooks, ... Spinal Fusion with Instrumentation Instrumentation includes implants such as rods, plates, screws, interbody devices, cages and hooks. Implanted instrumentation immediately stabilizes the spine ... Spine Fusion Instrumentation by J Jagannathan — Instrumentation used during lumbar interbody fusion surgeries includes many of the options listed above, such as pedicle screws, rods, plates, and cages. Push Mowers for Sale - PowerPro Equipment Searching for a self propelled lawn mower? PowerPro Equipment has all of the best push mower brands to choose from - schedule a test drive today! Outdoor Power Equipment Company PA & NJ PowerPro is a lawn equipment supplier providing everything for both residential & commercial projects. Browse our inventory now! K-Gro PowerPro Lawnmower Repair The K-Gro Power Pro Push mower, manufactured by Modern Tool and Die Company. K-Gro PowerPro Lawnmower troubleshooting, repair, and service manuals. K-grow or Power Pro riding mowers Oct 7, 2004 — I have a PowerPro 42 in riding mower and i'm trying to find new blades or at least some info on who or where they are sold. My best guess is K- ... K-Gro PowerPro Repair The K-Gro PowerPro is a riding lawnmower with a 12 or 18 HP engine option. This rideable lawnmower was produced by MTD and Murray for K-Mart in 1997. The 12 HP ... Pro Power - Professional Power Products Pro Power is family owned and operated with 3 active ... Lawn Mowers · Spartan Mowers · Parts · Service · Articles · Contact Us · Promotions · Pro Power © Go Pro ... PowerPro Riding Mowers Parts with Diagrams All models of PowerPro Riding Mowers. Fix it fast with OEM parts list and diagrams. Free Power Pro Riding Mower Part 1 - YouTube PowerPro Lawn Mower, Quantum 5 HP E... PowerPro Lawn Mower, Quantum 5 HP Engine, Model# RBSP225QAM, Serial# 051696M 002111. Details; Terms; Directions; Shipping. Please call Mike at 612-432-1321 with ...