

# Risk-Informed Decision-Making: Basic Concepts

Presentation to the  
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Presented by Steve Unwin, Ph.D.  
Pacific Northwest National Laboratory



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# Risk Informed Decision Making Proceeding

**AW Rasmussen**



## **Risk Informed Decision Making Proceeding:**

**Overview of risk-informed decision-making processes** Enrico Zio, Nicola Pedroni, 2012-10-01 The authors introduce the general concepts definitions and issues related to the use of Risk informed decision making RIDM These are structured processes which assist decision makers when faced with high impact complex decisions involving multiple objectives and the presence of uncertainty They aim to ensure that decisions between competing alternatives are taken with an awareness of the risks associated with each option and that all attributes of a decision are considered in an integrated manner Motivations for the use of these techniques as a complement to more traditional deterministic approaches to risk assessment are provided The RIDM processes adopted by NASA and by the US Nuclear Regulatory Commission are described in detail with an analysis of commonalities and differences in approach

**Proceedings of The 20th Pacific Basin Nuclear Conference** Hong Jiang, 2017-01-10 This is the first in a series of three proceedings of the 20th Pacific Basin Nuclear Conference PBNC This volume covers the topics of Safety and Security Public Acceptance and Nuclear Education as well as Economics and Reducing Cost As one in the most important and influential conference series of nuclear science and technology the 20th PBNC was held in Beijing and the theme of this meeting was Nuclear Powering the Development of the Pacific Basin and the World It brought together outstanding nuclear scientist and technical experts senior industry executives senior government officials and international energy organization leaders from all across the world The book is not only a good summary of the new developments in the field but also a useful guideline for the researchers engineers and graduate students

Proceedings of the 2nd International Symposium on Disaster Resilience and Sustainable Development Indrajit Pal, Rajib Shaw, Tomonori Ichinose, Yonariza, Takashi Oda, 2022-09-30 This conference proceeding book contains invited articles and contributory papers from the 2nd International Symposium on Disaster Resilience and Sustainable Development organized by Asian Institute of Technology Thailand on June 24 25 2021 It includes contributions from researchers and practitioners working in the area of disaster mitigation and risk reduction for sustainable communities The articles cover the topics such as on tools and techniques of hazard identifications risk assessment engineering innovations for hazard mitigation and safe design of structures to the vulnerable systems The content caters to research scholars students industry professionals data analytics companies re insurance companies government bodies and policymakers who work in the field of hazard modeling and disaster management

**Proceedings of the 1st International Conference in Safety and Crisis Management in the Construction, Tourism and SME Sectors ,** Reliability Modeling in Industry 4.0 Mangey Ram, Liudong Xing, 2023-03-13 Reliability Modeling with Industry 4.0 explores the emerging theoretical and practical developments in reliability engineering in highly digitized industries including power computer systems railway systems and robotics Drawing on leading research from around the globe as well as the latest in industry practice this book provides cutting edge advice on how to integrate a fully digitized industry 4.0 system for enhanced reliability and reduced

maintenance cost Technologies such as big data artificial intelligence and the industrial internet of things are addressed in the context of reliability engineering providing practical advice on applications Provides innovative reliability modeling tools related to the application of Industry 4 0 technologies Includes case studies from industries such as rail energy and computer systems Describes techniques for the successful digital transformation of industries for sophisticated reliability systems

*16th WCEAM Proceedings* Adolfo Crespo Márquez, Juan Francisco Gómez Fernández, Vicente González-Prida Díaz, Joe Amadi-Echendu, 2023-02-15 This book gathers selected peer reviewed papers from the 16th World Congress on Engineering Asset Management WCEAM held in Seville from 5 7 October 2022 This book covers a wide range of topics in Engineering Asset Management including Asset management and decision support system Industry 4 0 tools and its impact on asset management Monitoring diagnostics and prognostics for smart maintenance Asset life cycle management Asset management in the industrial sector Human dimensions and asset management performance Infrastructure Asset management Asset condition risk resilience and vulnerability assessments Asset operations and maintenance strategies Reliability and resilience engineering Applications of international and local guidelines and standards The breadth and depth of this state of the art comprehensive proceedings make it an excellent resource for asset management practitioners researchers and academics as well as undergraduate and postgraduate students

*Nutritional Care of the Patient with Gastrointestinal Disease* Alan L Buchman, 2015-08-06 This evidence based book serves as a clinical manual as well as a reference guide for the diagnosis and management of common nutritional issues in relation to gastrointestinal disease Chapters cover nutrition assessment macro and micronutrient absorption malabsorption food allergies prebiotics and dietary fiber probiotics and intestinal microflora nutrition and GI cancer nutritional management of reflux nutrition in IBS and IBD nutrition in acute and chronic pancreatitis enteral nutrition parenteral nutrition medical and endoscopic therapy of obesity surgical therapy of obesity pharmacologic nutrition and nutritional counseling

*Proceedings of the Marine Safety & Security Council*, 2015 **Proceedings of the 23rd Pacific Basin Nuclear Conference, Volume 2** Chengmin Liu, 2023-05-16 This is the second in a series of three volumes of proceedings of the 23rd Pacific Basin Nuclear Conference PBNC 2022 which was held by Chinese Nuclear Society As one in the most important and influential conference series of nuclear science and technology the 23rd PBNC was held in Beijing and Chengdu China in 2022 with the theme Nuclear Innovation for Zero carbon Future For taking solid steps toward the goals of achieving peak carbon emissions and carbon neutrality future oriented nuclear energy should be developed in an innovative way for meeting global energy demands and coordinating the deployment mechanism It brought together outstanding nuclear scientists and technical experts senior industry executives senior government officials and international energy organization leaders from all across the world The proceedings highlight the latest scientific technological and industrial advances in Nuclear Safety and Security Operations and Maintenance New Builds Waste Management Spent Fuel Decommissioning Supply Capability and Quality Management Fuel Cycles Digital Reactor and New Technology Innovative

Reactors and New Applications Irradiation Effects Public Acceptance and Education Economics Medical and Biological Applications and also the student program that intends to raise students awareness in fully engaging in this career and keep them updated on the current situation and future trends These proceedings are not only a good summary of the frontiers in nuclear science and technology but also a useful guideline for the researchers engineers and graduate students

**Best Practices for Risk-Informed Decision Making Regarding Contaminated Sites** National Research Council, Policy and Global Affairs, Science and Technology for Sustainability Program, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, Committee on Best Practices for Risk-Informed Remedy Selection, Closure and Post-Closure of Contaminated Sites, 2014-07-21 The Department of Energy's Office of Environmental Management's EM mission is the safe cleanup of sites associated with the government led development of nuclear weapons and nuclear energy While many of these legacy sites have completed cleanup the largest and most complex sites have not been fully remediated The cleanup of these sites is proceeding under legally enforceable agreements with timelines for hundreds of milestones EM is reviewing alternative approaches to increase effectiveness and improve cost efficiencies of its cleanup activities especially for sites that will have residual contamination when active cleanup is complete This report is the summary of two workshops convened in October 2013 and January 2014 on best practices for risk informed remedy selection closure and post closure control of radioactive and chemically contaminated sites that present significant difficulty for remediation to unrestricted release The workshop series aimed to explore best practices that promote effective risk informed decision making and future opportunities to improve remediation approaches and practices In the Workshop 1 section of Best Practices for Risk Informed Decision Making Regarding Contaminated Sites the report examines holistic approaches for remediating sites with multiple contaminant sources and post closure uses and approaches for incorporating a sustainability framework into decision making regarding site remediation closure and post closure control In Workshop 2 the report focuses on post closure controls assessment of long term performance of site remedies and best practices for risk based remediation decisions

*Probabilistic Safety Assessment and Management* Ali Mosleh, Robert A. Bari, 1998-08-26 These volumes contain the papers presented at the 4th International Conference on Probabilistic Safety Assessment and Management PSAM 4 held in New York City in September 98 The conference provided a forum for the presentation of innovative methods and applications of risk based approaches to improve the design and operation of technological systems and processes from the economic and safety points of view Papers reflect progress made on methods and applications in such areas as modeling and analysis of complex systems human and organizational performance assessment software reliability data collection and analysis expert judgement modeling and use identification and assessment of various types of uncertainty risk informed regulatory and operational decision making and public perception of risk A diverse range of disciplines are represented including aerospace nuclear fossil fuels chemical systems marine technology transportation information technology medical systems environment

and defense      *Proceedings of the International Symposium on Engineering under Uncertainty: Safety Assessment and Management (ISEUSAM - 2012)* Subrata Chakraborty, Gautam Bhattacharya, 2013-03-12 International Symposium on Engineering under Uncertainty Safety Assessment and Management ISEUSAM 2012 is organized by Bengal Engineering and Science University India during the first week of January 2012 at Kolkata The primary aim of ISEUSAM 2012 is to provide a platform to facilitate the discussion for a better understanding and management of uncertainty and risk encompassing various aspects of safety and reliability of engineering systems The conference received an overwhelming response from national as well as international scholars experts and delegates from different parts of the world Papers received from authors of several countries including Australia Canada China Germany Italy UAE UK and USA besides India More than two hundred authors have shown their interest in the symposium The Proceedings presents ninety two high quality papers which address issues of uncertainty encompassing various fields of engineering i e uncertainty analysis and modelling structural reliability geotechnical engineering vibration control earthquake engineering environmental engineering stochastic dynamics transportation system system identification and damage assessment and infrastructure engineering      **Decision-Making in High Risk Organizations Under Stress Conditions** Anthony J. Spurgin, David W. Stupples, 2016-08-19 This book discusses management decision making under accident conditions as a vehicle to confirm the importance of clear decision making guided by a systems approach on how an organization functions related to the role of managers operators and the operation of the plant The book shows how to effectively assess the reliability of an organization particularly those organizations responsible for critical infrastructure The authors have used Stafford Beer's cybernetic model as a basis to model the behavior and reliability of such organizations A series of case studies are used to draw conclusions not only how training experience and education can improve the strategy and response of management to reduce the probability of an economic or social disaster but also draw attention to the fact that managers need to be made aware of the consequences of their decisions Poor management decisions made under stress conditions can lead to the collapse of an organization together with its underlying business possibly linked to a social disaster with loss of life Some technology ignorant management decisions even under non stress conditions can lead to dangerous situations which can increase the economic burden placed on an organization This book describes such situations in order to promote improvement in organizational preparedness by training experience and education to reduce safety and economic risks This book offers Case studies of accidents that have affected different HROs high risk organizations and others due to poor decision making by management Training methods advocated by Admiral Hyman Rickover adopted by military bodies and others to prepare staff to make critical decisions under difficult conditions and examine their applicability to training managers of high risk facilities Documentation on how making decisions in difficult situations have psychological constraints related to the degree of preparedness and the tools available to aid the decision maker's Studies on the key actions taken before during and after accidents and how these management

decisions can affect accident propagation and how one could improve management decision making by the use of training in decision making and an understanding of Ross Ashby's Law of Requisite Variety Simulation techniques to improve training of front line operators and management Consideration of cost and investment evaluations and how they can distort the selection of tactics and measures that ensure successful operations and avoidance of accidents

**Engineering Assets and Public Infrastructures in the Age of Digitalization** Jayantha P. Liyanage, Joe Amadi-Echendu, Joseph Mathew, 2020-08-17 This proceedings of the 13th World Congress on Engineering Asset Management covers a range of topics that are timely relevant and practically important in the modern digital era towards safer cost effective efficient and secure engineered assets such as production and manufacturing plants process facilities civil structures equipment machinery and infrastructure It has compiled some pioneering work by domain experts of the global Engineering Asset Management community representing both public and private sectors The professional coverage of the book includes Asset management in Industry 4.0 Standards and models Sustainable assets and processes Life cycle perspectives Smart and safer assets Applied data science Workplace safety Asset health Advances in equipment condition monitoring Critical asset processes and Innovation strategy and entrepreneurship The breadth and depth of these state of the art comprehensive proceedings make them an excellent resource for asset management practitioners researchers and academics as well as undergraduate and postgraduate students

**Advanced Information Systems Engineering** Camille Salinesi, Moira C. Norrie, Oscar Pastor, 2013-06-20 This book constitutes the refereed proceedings of the 25th International Conference on Advanced Information Systems Engineering CAiSE 2013 held in Valencia Spain in June 2013 The 44 revised full papers were carefully reviewed and selected from 162 submissions The contributions have been grouped into the following topical sections services awareness business process execution products business process modelling modelling languages and meta models requirements engineering 1 enterprise architecture information systems evolution mining and predicting data warehouses and business intelligence requirements engineering 2 knowledge and know how information systems quality and human factors

*Proceedings of the 6th Global Summit of the Global Alliance of Disaster Research Institutes* Hirokazu Tatano, Paul Kovacs, Wilma James, 2025-08-12 This book contains the proceedings of the 6th Global Summit of the Global Alliance of Disaster Research Institutes GADRI with the sub theme of Towards GADRI Objectives of Achieving a Sustainable Disaster Resilient World The conference was held at the Disaster Prevention Research Institute DPRI Kyoto University Uji Campus Kyoto Japan 15-17 March 2023 The prolonged worldwide coronavirus pandemic and cascading risks have taught us that the conventional approach to disaster risk planning and management is ineffective for the development of sustainable and resilient communities A worldwide pandemic underscores the importance of the following key points i Disaster risk should not be treated in isolation but should be integrated with health risks climate change and environmental risks ii Objectives and a vision of disaster risk reduction DRR should be integrated with sustainable development goals to foster a resilient world iii

Short term DRR objectives need to be integrated with a long term vision and plans for a resilient society The conference discussions focused on how we could move towards a sustainable and resilient society by integrating the above three aspects in GADRI research and development There were two panel group discussion sessions The first session explored how GADRI objectives could contribute to achieving a sustainable and resilient society against disasters using the now launched committees The second session took these themes further to discuss new challenges for action by GADRI based on the following themes Big Science for DRR Large Scale Experiments Sustainable DRR Integrating Climate Action SDGs Field DRR Experience Sharing New Challenges for Action by GADRI Gender and Inclusivity in DRR Policy and Practice Putting Health into Disaster Risk Reduction DRR and Recovery Young Scientists Session on Youth DRR Role of Youth and Young Professionals in Data Knowledge Sharing in Disaster Risk Management The conference presentations focused on progress strategies and challenges discussing how best to play an important role collectively as GADRI to influence the decision making process for DRR across the board Nuclear regulation NRC needs to more aggressively and comprehensively resolve issues related to the DavisBesse nuclear power plant's shutdown : report to congressional requesters. ,

**Proceeding of the 7th International Conference on Logistics Operations Management, GOL'24** Youssef Benadada,Fatima-Zahra Mhada,Jaouad Boukachour,Fatima Ouzayd,Ahmed El Hilali Alaoui,2024-08-27 This book presents the advances in the concept model method and tools for the global supply chain management The conference took place in Marrakesh from May 2 to May 4 2024 The 7th edition of this conference focused on Smart Sustainable and Green Logistics The papers included in the book s proceedings cover various themes such as Metaheuristics for industry 4 0 Multi agent systems for solving combinatorial optimization problems Sustainability in supply chain management a paradigm for global transformation Sustainable and agile supply chain management Sustainable and smart management of water resources innovative optimization Artificial intelligence and emerging technologies advancements and applications Artificial intelligence techniques and statistical modeling for mobility and urban logistics planning Smart and green process in transport and logistics Viability of logistics networks structural dynamics and recovery strategy low certainty context Modeling simulation and optimization Planning and scheduling Decision support systems Risk management Project management Information systems integration Supply chain design and control Models and algorithms for electric mobility

*Probabilistic Safety Assessment and Management* Cornelia Spitzer,Ulrich Schmocker,Vinh N. Dang,2014-01-04 Probabilistic Safety Assessment and Management is a collection of papers presented at the PSAM 7 ESREL 04 Conference in June 2004 The joint Conference provided a forum for the presentation of the latest developments in methodology and application of probabilistic and reliability methods in various industries The aim of these applications is the optimisation of technological systems and processes from the perspective of a risk informed safety management while also taking economic and environmental aspects into account Bringing together leading experts from all over the world the papers reflect a wide



variety of disciplines such as principles and theory of reliability and risk analysis systems modelling and simulation consequence assessment human and organisational factors structural reliability methods software reliability and safety insights and lessons from risk studies and management decision making     Dynamic Risk Assessment and Management of Domino Effects and Cascading Events in the Process Industry Valerio Cozzani, Genserik Reniers, 2021-06-08 Dynamic Risk Assessment and Management of Domino Effects and Cascading Events in the Process Industry provides insights into emerging and state of the art methods for the dynamic assessment of risk and safety barrier performance in the framework of domino effect risk management The book presents methods and tools to manage the risk of cascading events involving the chemical and process industry It is an ideal reference for both safety and security managers industrial risk stakeholders scientists and practitioners In addition laymen may find the state of the art methods concerning domino effects large scale accidents and how to prevent their propagation an interesting topic of study Includes dynamic hazard and risk assessment methods Presents methods for safety barrier performance assessment Addresses the effect of harsh environment on domino risk assessment Relates physical security in relation to domino effects Includes innovative methods and tools

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