

## Uncertainties

Literature review of methods for representing uncertainty  
Uncertainty propagation and importance measure assessment  
Urban Complexity and Planning  
Possibilistic methods for uncertainty treatment  
Uncertainty characterization in risk analysis for decision-making practice  
Arms for Uncertainty  
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23  
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Emerging Issues for Small Island Developing States  
BMJ Enrico Zio  
Enrico Zio Shih-Kung Lai  
Enrico Zio  
Professor Stephen J Cimbala  
Heather Millar  
Carolin Seibert  
Puangrat Kajitvichyanukul  
Michael Smick  
Veronka Fischer  
Unesco Wolfgang Behringer  
Jochen Hickel  
Sylvia Nagl  
Arthur James Wells  
United Nations Environment Programme  
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this document provides a critical review of different frameworks for uncertainty analysis in a risk analysis context classical probabilistic analysis imprecise probability interval analysis probability bound analysis evidence theory and possibility theory the driver of the critical analysis is the decision making process and the need to feed it with representative information derived from the risk assessment to robustly support the decision technical details of the different frameworks are exposed only to the extent necessary to analyze and judge how these contribute to the communication of risk and the representation of the associated uncertainties to decision makers in the typical settings of high consequence risk analysis of complex systems with limited knowledge on their behaviour

the authors investigate the effects that different representations of epistemic uncertainty have on practical risk assessment problems two different application problems are considered 1 the estimation of component importance measures in the presence of epistemic uncertainties 2 the propagation of uncertainties through a risk flooding model the focus is on the epistemic uncertainty affecting the parameters of the models that describe the components failures due to incomplete knowledge of their values this epistemic uncertainty is represented using probability distributions when sufficient data is available for statistical analysis and by possibility distributions when the information available to define the parameters values comes from experts in the form of imprecise quantitative statements or judgments three case studies of increasing complexity are presented a pedagogical example of importance measure assessment on a three component system from the literature assessment of importance measures for the auxiliary feed water system of a nuclear pressurized water reactor an application in environmental modelling with an analysis of uncertainty propagation in a hydraulic model for the risk based design of a flood protection dike

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in recent years there has been a new understanding of how cities evolve and function which reflects the emergent paradigm of complexity the crux of this view is that cities are created by differentiated actors involved in individual small scale projects interacting in a complex way in the urban development process this bottom up approach to urban modeling not only transforms our understanding of cities but also improves our capabilities of harnessing the urban development process for example we used to think that plans control urban development in an aggregate holistic way but what actually happens is that plans only affect differentiated actors in seeking their goals through information in other words plans and regulations set restrictions or incentives of individual behaviour in the urban development process through imposing rights information and prices and the analysis of the effects of plans and regulations must take into account the complex urban dynamics at a disaggregate level of the urban development process computer simulations provide a rigorous promising analytic tool that serves as a supplement to the traditional mathematical approach to depicting complex urban dynamics based on the emergent paradigm of complexity the book provides an innovative set of arguments about how we can gain a better understanding of how cities emerge and function through computer simulations and how plans affect the evolution of complex urban systems in a way distinct from what we used to think they should empirical case studies focus on the development of a compact urban hierarchy in taiwan china and the usa but derive more generalizable principles and relationships among cities complexity and planning

the authors propose a method for assessing the performance of a maintenance policy whilst accounting for uncertainty in various parameters of the degradation model the method is appropriate for the representation and propagation of epistemic uncertainty which is elicited from an expert who can provide a family of confidence intervals for each uncertain parameter information elicited from the expert is described using possibility distributions and propagated through the degradation model using fuzzy random variables and the dempster shafer theory of evidence in classical approaches to uncertainty propagation based on probability theory probability distributions are used to represent information obtained from experts however expert judgment is often expressed using imprecise linguistic statements and the imposition of specific probability distributions over constrains this uncertain information in a arbitrary and unjustified manner possibility theory allows the epistemic uncertainty arising from expert opinion to be represented in an arguably more

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rigorous manner without introducing additional bias a practical case study concerning the maintenance of a check valve of a turbo pump lubricating system in a nuclear power plant illustrates the method a rupture failure model caused by fatigue is modeled and a condition based maintenance policy is applied to the component over a fixed time horizon the performance of the maintenance policy is assessed in terms of cost and component unavailability

this document provides an overview of sources of uncertainty in probabilistic risk analysis for each phase of the risk analysis process system modeling hazard identification estimation of the probability and consequences of accident sequences risk evaluation the authors describe and classify the types of uncertainty that can arise the document provides a description of the risk assessment process as used in hazardous industries such as nuclear power and offshore oil and gas extraction a classification of sources of uncertainty both epistemic and aleatory and a description of techniques for uncertainty representation a description of the different steps involved in a probabilistic risk assessment pra or quantitative risk assessment qra and an analysis of the types of uncertainty that can affect each of these steps annexes giving an overview of a number of tools used during probabilistic risk assessment including the hazid technique fault trees and event tree analysis

nuclear weapons are here to stay they have survived into the twenty first century as instruments of influence for the us russia and other major military powers but unlike the cold war era future nuclear forces will be developed and deployed within a digital driven world of enhanced conventional weapons as such established nuclear powers will have smaller numbers of nuclear weapons for the purpose of deterrence working in parallel with smarter conventional weapons and elite military personnel the challenge is to agree proportional reductions in nuclear inventories or abstinence requiring an effective nonproliferation regime to contain aspiring or threshold nuclear weapons states this is the most comprehensive view of nuclear weapons policy and strategy currently available the author s division of the nuclear issue into the three ages is a never seen before analytical construct with president obama reelected the reduction and even elimination of nuclear weapons will now rise to the top of the agenda once more moreover given the likelihood of reductions in

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us defense spending the subject of the triad which is covered in chapter one will no doubt be an important subject of debate as will the issue of missile defense covered in chapter 10 this book provides an excellent analysis of the spread of nuclear weapons in asia and the middle east and the potential dangers of a north korean or iranian breakout subjects that dominate current policy debates

hydraulic fracturing fracking is an unconventional extraction technique used in the oil and gas industry that has fundamentally transformed global energy politics in fracking uncertainty heather millar explains variation in canadian provincial policy approaches which range from pro development regulation to moratoria and outright bans millar argues that although regulatory designs are shaped by governments desires to seek out economic benefits or protect against environmental harms policy makers perceptions of said benefits and or harms are mediated through socially constructed narratives about uncertainty and risk fracking uncertainty offers in depth case studies of regulatory development in british columbia alberta new brunswick and nova scotia drawing on media analysis and interviews with government officials industry representatives academics and environmental advocates millar demonstrates how risk narratives foster distinctive forms of learning in each province leading to different regulatory reforms

uncertainties about the tax treatment of business transactions in the tax return or tax balance sheet can cause significant accounting challenges for current and deferred taxes in the financial statements whereas the accounting treatment of tax risks or tax audit risks has been regulated under us gaap since 2006 a corresponding ifrs regulation was only published in 2017 and is effective from the 2019 fiscal year the author takes this as an opportunity to analyze and critically assess the differences between the us gaap accounting regulation fin 48 accounting for uncertainty in income taxes and the ifrs accounting regulation ifric 23 uncertainty over income tax treatments building on the insights from her analysis the author also examines the problem areas arising from ifric 23 from the perspective of the german tax authorities german business practice and german advisory practice

frontier technology in water treatment and pollutant removal is needed not only for maximizing water reuse but also for the rapid detection of contaminants in the recycled water

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the un announced the years 2018 to 2028 as the international decade for action water for sustainable development to realize this mission innovative and frontier technologies for water treatment and pollutant removal are important components this book aims to serve as a platform for updating the scientific community with recent progress in this area covering frontier technologies in analytical technique physicochemical treatment chemical treatment and biological treatment in focus a book series that showcases the latest accomplishments in water research each book focuses on a specialist area with papers from top experts in the field it aims to be a vehicle for in depth understanding and inspire further conversations in the sector

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doctoral thesis dissertation from the year 2008 in the subject law comparative legal systems comparative law grade cum laude university of augsburg prof dr m llers course rechtsvergleichung kapitalmarktrecht language english abstract to the point four years ago the german act establishing the federal financial supervisory authority findag provided for a one stop financial services agency bafin which was to succeed three formerly independent public authorities for the supervision of banking insurance and securities whereas this on stop shop approach has been both acclaimed and criticized the us securities and exchange commission from its very beginning administered the areas of corporate finance market regulation and investment although the missions of both supervisory authorities correspond the powers transferred and thus the means of operations differ sharply limited to the supervisory power for capital markets the thesis will analyse the agencies historical development governing law operations and legal means and conduct an estimate of their

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economic efficiency a comparison will help to provide suggestions for further legal design and development of the bafin in the following years veronika fischer geb 1982 promovierte nach dem studium der rechts und wirtschaftswissenschaften universitt augsburg und dem abschluss als mba university of dayton im internationalen kapitalmarktrecht mit einem us forschungsaufenthalt university of north carolina sie ist einer internationalen unternehmensberatung ttig

this report urges governments to expand quality education for all increase community access to information and communication technology and improve cross border scientific knowledge sharing in an effort to narrow the digital and knowledge divides between the north and south and move towards a smart form of sustainable human development it makes a distinction between information societies and knowledge societies and analyses the role played by knowledge in economic growth and factors that block its development

global warming and the future of the climate is one of the greatest challenges of our time but what do we know about climate variations 500 years ago or 5000 years ago how can we know anything at all about the history of weather what impact have climate changes had on human prosperity and the spirit of invention in this major new book wolfgang behringer introduces us to the latest historical research on the development of the earth s climate he focuses above all on the cultural reactions to climate change through the ages showing how even minor changes in the climate sometimes resulted in major social political and religious upheavals by examining how our predecessors responded to climate changes behringer provides us with a fresh basis for thinking about how we might address the serious climatic challenges we face today

provides a framework for considering the full range of approaches to vulnerability impacts and adaptation assessment due to climate change it aims to help professionals such as researchers policymakers sectoral planners and consultants to select the appropriate methods and tools for their particular context and adaptation situation

the development and application of bioinformatics tools to basic and translational cancer research is in fact a rapidly expanding field that deserves a timely review therefore a

publication of this type is needed the editors have done an excellent job in recruiting well established scientists to author the various chapters of the book dieter naf jackson laboratory usa cancer bioinformatics is now emerging as a new interdisciplinary field which is facilitating an unprecedented synthesis of knowledge arising from the life and clinical sciences this groundbreaking title provides a comprehensive and up to date account of the enormous range of bioinformatics for cancer therapy development from the laboratory to clinical trials it functions as a guide to integrated data exploitation and synergistic knowledge discovery and support the consolidation of the interdisciplinary research community involved

the 2012 unep foresight process on emerging global environmental issues primarily identified emerging environmental issues and possible solutions on a global scale and perspective in 2013 unep carried out a similar exercise to identify priority emerging environmental issues that are of concern to the small island developing states sids the social and economic emerging issues were also identified using the same set of criteria at the core of the process was a sids foresight panel consisting of 11 sids experts for the unep panel and 12 experts for the un desa panel from the three sids regions representing the global sids community and a wide range of disciplines the process was designed to open the discussion on emerging environmental issues to a broad range of views both from the foresight panel and a wider community of relevant experts from across the globe through the foresight process separate lists of 20 environmental and 15 socioeconomic emerging issues were identified and discussed in this report

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