

Practical Uncertainty

Dependability Modelling under Uncertainty

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Dependability Modelling Under Uncertainty An Imprecise Probabilistic Approach Studies In Computational Intelligence

Enrico Zio, Nicola Pedroni



Dependability Modelling Under Uncertainty An Imprecise Probabilistic Approach Studies In Computational Intelligence:

Dependability Modelling under Uncertainty Philipp Limbourg, 2008-08-20 Mechatronic design processes have become shorter and more parallelized induced by growing time to market pressure Methods that enable quantitative analysis in early design stages are required should dependability analyses aim to influence the design Due to the limited amount of data in this phase the level of uncertainty is high and explicit modeling of these uncertainties becomes necessary This work introduces new uncertainty preserving dependability methods for early design stages These include the propagation of uncertainty through dependability models the activation of data from similar components for analyses and the integration of uncertain dependability predictions into an optimization framework It is shown that Dempster Shafer theory can be an alternative to probability theory in early design stage dependability predictions Expert estimates can be represented input uncertainty is propagated through the system and prediction uncertainty can be measured and interpreted The resulting coherent methodology can be applied to represent the uncertainty in dependability models Maintenance and Safety of Aging Infrastructure Dan Frangopol, Yiannis Tsompanakis, 2014-10-23 This book presents the latest research findings in the field of maintenance and safety of aging infrastructure The invited contributions provide an overview of the use of advanced computational and or experimental techniques in damage and vulnerability assessment as well as maintenance and retrofitting of aging structures and infrastructures such *Fuzzy TOPSIS* Mohamed El Alaoui, 2021-05-26 This book aims to justify the use of fuzzy logic as a logic and as an uncertainty theory in the decision making context It also discusses the development of the TOPSIS method Technique for Order of Preference by Similarity to Ideal Solution with related examples and MATLAB codes This is the first book devoted to TOPSIS and its fuzzy versions It presents the use of fuzzy logic as a logic and as an uncertainty theory in the decision making content and discusses the development of the TOPSIS method in classical and fuzzy context The book justifies the use of fuzzy logic as an uncertainty theory and provides illustrative examples for each fuzzy TOPSIS extension along with related MATLAB codes and case studies This book is for industrial engineers operations research engineers systems engineers and production engineers working in the areas of decision analysis multi criteria decision making and multiple objective optimization **Computational Intelligence in Reliability Engineering** Gregory Levitin, 2006-10-25 This volume includes chapters presenting applications of different metaheuristics in reliability engineering including ant colony optimization great deluge algorithm cross entropy method and particle swarm optimization It also presents chapters devoted to cellular automata and support vector machines and applications of artificial neural networks a powerful adaptive technique that can be used for learning prediction and optimization Several chapters describe aspects of imprecise reliability and applications of fuzzy and vague set theory **Introduction to Imprecise Probabilities** Thomas Augustin, Frank P. A. Coolen, Gert de Cooman, Matthias C. M. Troffaes, 2014-06-03 In recent years the

theory has become widely accepted and has been further developed but a detailed introduction is needed in order to make the material available and accessible to a wide audience This will be the first book providing such an introduction covering core theory and recent developments which can be applied to many application areas All authors of individual chapters are leading researchers on the specific topics assuring high quality and up to date contents An Introduction to Imprecise Probabilities provides a comprehensive introduction to imprecise probabilities including theory and applications reflecting the current state of the art Each chapter is written by experts on the respective topics including Sets of desirable gambles Coherent lower conditional previsions Special cases and links to literature Decision making Graphical models Classification Reliability and risk assessment Statistical inference Structural judgments Aspects of implementation including elicitation and computation Models in finance Game theoretic probability Stochastic processes including Markov chains Engineering applications Essential reading for researchers in academia research institutes and other organizations as well as practitioners engaged in areas such as risk analysis and engineering

Methodik zur hochiterativen Gestaltung von Fertigungsprozessfolgen Jan Rey, 2020-07-27 Produzierende Unternehmen sehen sich zunehmend einem Wettbewerbsumfeld ausgesetzt das von hohen Unsicherheiten steigender Individualisierung und schwankenden Kundennachfragen geprägt ist Um diesen Herausforderungen zukünftig begegnen zu können erfolgt die Entwicklung physischer Produkte zunehmend mittels agiler Methoden die auch als hochiterative Entwicklungsmethoden bezeichnet werden Ziel der hochiterativen Entwicklung ist die schnellstmögliche Reduzierung von Produkt und Fertigungstechnologieunsicherheiten in kurzen Entwicklungszyklen sogenannten Sprints Die entwicklungsbegleitende Planung der für die Herstellung der Produkte notwendigen Fertigungsprozesse und deren Verknüpfung in Fertigungsprozessfolgen Technologieplanung liefert einen entscheidenden Beitrag zum wirtschaftlichen Erfolg einer hochiterativen Produktentwicklung Bislang existiert jedoch keine methodische Unterstützung für Technologieplaner die eine systematische Gestaltung von Fertigungsprozessfolgen unter Berücksichtigung der vorherrschenden Produkt und Technologieunsicherheiten während des hochiterativen Produktentwicklungsprozesses ermöglicht Gegenstand der Dissertation ist die Entwicklung einer Methodik zur hochiterativen Gestaltung von Fertigungsprozessfolgen Die entwickelte Methodik setzt sich aus drei Hauptschritten zusammen Im ersten Hauptschritt wird unter Verwendung der Evidenztheorie nach DEMPSTER SHAFER ein Vorgehen entwickelt mit dem erstmals Informationen zu geforderten Bauteilmerkmalen aus unterschiedlichen Quellen aggregiert und hinsichtlich ihrer Unsicherheiten quantifiziert werden können Diese aggregierten Informationen werden für die Generierung alternativer Fertigungsprozessfolgen im zweiten Hauptschritt verwendet Dafür wird ein Modell entwickelt mit dem die Informationsunsicherheiten in Fertigungsprozessfolgen unter Berücksichtigung ihrer Abhängigkeiten beschrieben werden können Auf Basis dieses Beschreibungsmodells wird eine Kennzahl zur Bewertung der Planungssicherheit einer Fertigungsprozessfolge entwickelt deren Erhöhung das Ziel der weiteren Informationsbeschaffung

im Entwicklungsprozess ist Im letzten Hauptschritt wurde ein Vorgehen entwickelt mit dem unsicherheitsbehaftete Fertigungsprozessfolgen wirtschaftlich bewertet und Stellhebel zur Unsicherheitsreduktion in Fertigungsprozessfolgen priorisiert werden können Anhand eines Fallbeispiels aus der Automobilindustrie wurde die praktische Anwendbarkeit der Methodik abschließend gezeigt

Risk, Reliability and Safety: Innovating Theory and Practice Lesley Walls, Matthew Revie, Tim Bedford, 2016-11-25 The safe and reliable performance of many systems with which we interact daily has been achieved through the analysis and management of risk From complex infrastructures to consumer durables from engineering systems and technologies used in transportation health energy chemical oil gas aerospace maritime defence and other sectors the management of risk during design manufacture operation and decommissioning is vital Methods and models to support risk informed decision making are well established but are continually challenged by technology innovations increasing interdependencies and changes in societal expectations Risk Reliability and Safety contains papers describing innovations in theory and practice contributed to the scientific programme of the European Safety and Reliability conference ESREL 2016 held at the University of Strathclyde in Glasgow Scotland 25-29 September 2016 Authors include scientists academics practitioners regulators and other key individuals with expertise and experience relevant to specific areas Papers include domain specific applications as well as general modelling methods Papers cover evaluation of contemporary solutions exploration of future challenges and exposition of concepts methods and processes Topics include human factors occupational health and safety dynamic and systems reliability modelling maintenance optimisation uncertainty analysis resilience assessment risk and crisis management

Integrated Uncertainty in Knowledge Modelling and Decision Making Yongchuan Tang, Van-Nam Huynh, Jonathan Lawry, 2011-10-12 This book constitutes the refereed proceedings of the International Symposium on Integrated Uncertainty in Knowledge Modeling and Decision Making IUKM 2011 held in Hangzhou China in October 2011 The 21 revised full papers presented together with 1 keynote lecture and 5 invited talks were carefully reviewed and selected from 55 submissions The papers provide a wealth of new ideas and report both theoretical and applied research on integrated uncertainty modeling and management

Judgment and Decision Making Under Uncertainty: Descriptive, Normative, and Prescriptive Perspectives David R. Mandel, Gorka Navarrete, Nathan Dieckmann, Jonathan D. Nelson, 2019-09-26

Possibilistic methods for uncertainty treatment Enrico Zio, Nicola Pedroni, 2014-06-02 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 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 Advances in Computational

Intelligence, Part III Salvatore Greco, Bernadette Bouchon-Meunier, Giulianella Coletti, Mario Fedrizzi, Benedetto Matarazzo, Ronald R. Yager, 2012-07-20 These four volumes CCIS 297 298 299 300 constitute the proceedings of the 14th International Conference on Information Processing and Management of Uncertainty in Knowledge Based Systems IPMU 2012 held in Catania Italy in July 2012 The 258 revised full papers presented together with six invited talks were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on fuzzy machine learning and on line modeling computing with words and decision making soft computing in computer vision rough sets and complex data analysis theory and applications intelligent databases and information system information fusion systems philosophical and methodological aspects of soft computing basic issues in rough sets 40th anniversary of the measures of fuzziness SPS11 uncertainty in profiling systems and applications handling uncertainty with copulas formal methods to deal with uncertainty of many valued events linguistic summarization and description of data fuzzy implications theory and applications sensing and data mining for teaching and learning theory and applications of intuitionistic fuzzy sets approximate aspects of data mining and database analytics fuzzy numbers and their applications information processing and management of uncertainty in knowledge based systems aggregation functions imprecise probabilities probabilistic graphical models with imprecision theory and applications belief function theory basics and or applications fuzzy uncertainty in economics and business new trends in De Finetti's approach fuzzy measures and integrals multicriteria decision making uncertainty in privacy and security uncertainty in the spirit of Pietro Benvenuti cooperation game theory probabilistic approach Scientific and Technical Aerospace Reports, 1992 **Proceedings of the 23rd European Conference on Cyber Warfare and Security**

Dr Martti Lehto, 2024-06-27 These proceedings represent the work of contributors to the 23rd European Conference on Cyber Warfare and Security ECCWS 2024 supported by University of Jyväskylä and JAMK University of Applied Sciences Finland on 27-28 June 2024 The Conference Chair is Dr Martti Lehto from the University of Jyväskylä Finland and the Programme Chair is Dr Mika Karjalainen from JAMK University of Applied Sciences Finland ECCWS is a well established event on the academic research calendar and now in its 23rd year conference remains the opportunity for participants to network and share ideas The aims and scope of the conference is to be a forum for technical theoretical and practical

exchange about the study management development and implementation of systems and concepts to improve cyber security and combat cyber warfare The opening keynote presentation is given by Stefan Lee from Ministry of Transport and Communications Finland on the topic of Geopolitics and Cyberspace Key Implications for National Cybersecurity Policies and Strategies The second day of the conference will open with an address by Colonel Janne Jokinen Finnish Defence Force Finland speaking on Ten Practical Hindrances to Building Cyber Defence With an initial submission of 171 abstracts after the double blind peer review process there are 180 Academic research papers 11 PhD research papers 6 Masters research paper and 2 work in progress papers published in these Conference Proceedings These papers represent research from Australia Austria Belgium Canada Czech Republic Estonia Finland Germany Ireland Japan Kingdom of Saudi Arabia Lithuania Norway Oman Poland Portugal Romania South Africa Spain The Czech republic United Arab Emirates UK and USA

Safety and Reliability - Safe Societies in a Changing World Stein Haugen, Anne Barros, Coen van Gulijk, Trond Kongsvik, Jan Erik Vinnem, 2018-06-15 Safety and Reliability Safe Societies in a Changing World collects the papers presented at the 28th European Safety and Reliability Conference ESREL 2018 in Trondheim Norway June 17 21 2018 The contributions cover a wide range of methodologies and application areas for safety and reliability that contribute to safe societies in a changing world These methodologies and applications include foundations of risk and reliability assessment and management mathematical methods in reliability and safety risk assessment risk management system reliability uncertainty analysis digitalization and big data prognostics and system health management occupational safety accident and incident modeling maintenance modeling and applications simulation for safety and reliability analysis dynamic risk and barrier management organizational factors and safety culture human factors and human reliability resilience engineering structural reliability natural hazards security economic analysis in risk management Safety and Reliability Safe Societies in a Changing World will be invaluable to academics and professionals working in a wide range of industrial and governmental sectors offshore oil and gas nuclear engineering aeronautics and aerospace marine transport and engineering railways road transport automotive engineering civil engineering critical infrastructures electrical and electronic engineering energy production and distribution environmental engineering information technology and telecommunications insurance and finance manufacturing marine transport mechanical engineering security and protection and policy making

Managing Uncertainty, Mitigating Risk Nick Firoozye, Fauziah Ariff, 2016-04-20 Managing Uncertainty Mitigating Risk proposes that financial risk management broaden its approach maintaining quantification where possible but incorporating uncertainty The author shows that by using broad quantification techniques and using reason as the guiding principle practitioners can see a more holistic and complete picture

Intelligent and Fuzzy Systems Cengiz Kahraman, Selcuk Cebi, Basar Oztaysi, Sezi Cevik Onar, Cagri Tolga, Irem Ucal Sari, Irem Otay, 2025-07-25 Artificial Intelligence in Human Centric Resilient Sustainable Industries This book focuses on benefiting artificial intelligent tools in our business and social life under emerging conditions Human centric

resilient and sustainable industries are built on ideals like human centricity ecological advantages or social benefits The mission of human centric artificial intelligence is to improve people s lives by offering solutions that boost productivity accessibility to resources security well being and general quality of life The latest intelligent methods and techniques on human centric resilient and sustainable industries are introduced by theory and applications This book covers the chapters of world wide known experts on machine learning medical image processing process intelligence process mining and others The intended readers are intelligent systems researchers lecturers M Sc and Ph D students trying to develop approaches giving human needs values and viewpoints top priority through artificial intelligent systems Multi-criteria Decision Making for Smart Grid Design and Operation Lazar Z. Velimirović,Aleksandar Janjić,Jelena D. Velimirović,2023-01-09 The book is dedicated to the implementation of different multi criteria decision making techniques for various problems concerning planning and operation of the smart grid from the Society 5 0 perspective It consists of a practical explanation of several multi criteria approaches and examples of their application to real problems In this book the choice of the optimal smart grid strategy in planning and operation is made Various areas of smart grid problems are analyzed from the smart grid project efficiency assessment to the electric vehicle charging schedule optimization The comparison of alternatives is made using different techniques taking into account the presence of multiple criteria of both qualitative and quantitative nature different performance indicators and the uncertain environment of the smart grid The book outlines in clear terms how the electricity grid can be modernized in such a way that it monitors protects and automatically optimizes the operation of its interconnected elements taking into account different stakeholders and criteria and society in general The book covers various smart grid aspects from the distributed generator through the medium voltage network and distribution system to energy storage installations and to end use consumers and their thermostats electric vehicles appliances and other household devices The book serves as a practical guide for researchers energy and utility professionals power system planners regulators policymakers and others in the field Artificial Intelligence D. Sleeman,N. O. Bernsen,2019-12-06 Originally published in 1992 this title reviews seven major subareas in artificial intelligence at that time knowledge acquisition logic programming and representation machine learning natural language vision the design of an AI programming environment and medicine a major application area of AI This volume was an attempt primarily to inform fellow AI workers of recent European work in AI It was hoped that researchers in sister disciplines such as computer science and linguistics would gain a deeper understanding of the assumptions techniques and tools of contemporary AI **Artificial Intelligence** Manish Soni,2024-11-13 Welcome to the world of Artificial Intelligence AI This book is designed to provide you with a comprehensive introduction to the exciting field of Artificial Intelligence Whether you are a student a professional or simply someone curious about the latest advancements in AI this book aims to be your go to resource Artificial Intelligence has become an integral part of our daily lives impacting industries such as healthcare finance transportation and

entertainment As AI technologies continue to evolve the demand for individuals with expertise in AI is on the rise Whether you are pursuing a degree in computer science aiming to enhance your career prospects or simply fascinated by the endless possibilities of AI this book is here to guide you on your journey *Improving Homeland Security Decisions* Ali E. Abbas, Milind Tambe, Detlof von Winterfeldt, 2017-11-02 What are the risks of terrorism and what are their consequences and economic impacts Are we safer from terrorism today than before 9 11 Does the government spend our homeland security funds well These questions motivated a twelve year research program of the National Center for Risk and Economic Analysis of Terrorism Events CREATE at the University of Southern California funded by the Department of Homeland Security This book showcases some of the most important results of this research and offers key insights on how to address the most important security problems of our time Written for homeland security researchers and practitioners this book covers a wide range of methodologies and real world examples of how to reduce terrorism risks increase the efficient use of homeland security resources and thereby make better decisions overall

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