Roel J. Wieringa

Design Science Methodology

for Information Systems and Software Engineering

Springer

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Design Science Methodology For Information Systems And Software Engineering:

Design Science Methodology for Information Systems and Software Engineering Roel J. Wieringa,2014-11-19 This book provides guidelines for practicing design science in the fields of information systems and software engineering research A design process usually iterates over two activities first designing an artifact that improves something for stakeholders and subsequently empirically investigating the performance of that artifact in its context This validation in context is a key feature of the book since an artifact is designed for a context it should also be validated in this context The book is divided into five parts Part I discusses the fundamental nature of design science and its artifacts as well as related design research questions and goals Part II deals with the design cycle i e the creation design and validation of artifacts based on requirements and stakeholder goals To elaborate this further Part III presents the role of conceptual frameworks and theories in design science Part IV continues with the empirical cycle to investigate artifacts in context and presents the different elements of research problem analysis research setup and data analysis Finally Part V deals with the practical application of the empirical cycle by presenting in detail various research methods including observational case studies case based and sample based experiments and technical action research These main sections are complemented by two generic checklists one for the design cycle and one for the empirical cycle The book is written for students as well as academic and industrial researchers in software engineering or information systems It provides guidelines on how to effectively structure research goals how to analyze research problems concerning design goals and knowledge questions how to validate artifact designs and how to empirically investigate artifacts in context and finally how to present the results of the design cycle as a whole *ECRM 2023 22nd European Conference on Research Methods in Business and Management* Academic Conferences and Publishing Limited,2023-09-06 *A Design Science Research Methodology Guide for graduate students* Betina Tagle,2019-04-23 This guide helps graduate students work with Design Science Research DSR methodology DSR is used in technology research to bring solutions to problems and add to the knowledge base The information in this guide has excellent resources for students to get started in DSR **Contemporary Empirical Methods in Software Engineering** Michael Felderer,Guilherme Horta Travassos,2020-08-27 This book presents contemporary empirical methods in software engineering related to the plurality of research methodologies human factors data collection and processing aggregation and synthesis of evidence and impact of software engineering research The individual chapters discuss methods that impact the current evolution of empirical software engineering and form the backbone of future research Following an introductory chapter that outlines the background of and developments in empirical software engineering over the last 50 years and provides an overview of the subsequent contributions the remainder of the book is divided into four parts Study Strategies including e g guidelines for surveys or design science Data Collection Production and Analysis highlighting approaches from e g data science biometric measurement and simulation based studies Knowledge Acquisition and Aggregation highlighting

literature research threats to validity and evidence aggregation and Knowledge Transfer discussing open science and knowledge transfer with industry Empirical methods like experimentation have become a powerful means of advancing the field of software engineering by providing scientific evidence on software development operation and maintenance but also by supporting practitioners in their decision making and learning processes Thus the book is equally suitable for academics aiming to expand the field and for industrial researchers and practitioners looking for novel ways to check the validity of their assumptions and experiences Chapter 17 is available open access under a Creative Commons Attribution 4 0 International License via link springer com **Science in Design** Tarun Grover,Mugdha Thareja,2020-12-21 There is an important overlap between science and design The most significant technological developments cannot be produced without designers to conceptualize them By the same token designers cannot do their job properly without a good understanding of the scientific or technical principles that are being developed within the product Science in Design Solidifying Design with Science and Technology reveals the significance of the essential yet understudied intersection of design and scientific academic research and encompasses technological development scientific principles and the point of overlap between science and design Encourages readers to comprehend the role of science in all facets of design Discusses the fundamental involvement of science required for engineering and design irrespective of whether the design is from an individual business or social perspective Covers the ontology characteristics and application of science in major fields of design education and design research with an introduction of emerging practices transforming sustainable growth through applied behavioral models Depicts the art and science of material selection using new design techniques and technology advances like augmented reality AI and decision support toolkits This unique book will benefit scientists technologists and engineers as well as designers and professionals across a variety of industries dealing with scientific analysis of design research methodology design lifecycle and problem solving **Unternehmensweites Informationsmanagement** Christian M. Schweda,2024-10-09 Der Aufbau und die Transformation digitaler Gesch ftsmodelle stellen eine Herausforderung f r Unternehmen dar Dieses Buch unterst tzt mit praxiserprobten Bausteinen das Management digitaler Gesch ftsmodelle sowie die Gestaltung einer Unternehmensarchitektur die diese Gesch ftsmodelle m glich macht Es ordnet die Best Practices in einem Framework an das Prinzipien von ArchiMate TOGAF und COBIT aufgreift und auf wesentliche Grundgedanken Axiome zusammenf hrt Diese Axiome erm glichen es die Best Practices an die konkreten Gegebenheiten von Unternehmen anzupassen Die Best Practices bilden die Grundlage f r die Governance der digitalen Transformation sowie ein damit integriertes Management der Gef hrdungen und sich daraus ergebende Informationsrisiken Ein Lehr und Trainingskonzept f r das Management digitaler Gesch ftsmodelle sowie eine Forschungsmethode f r wissenschaftliche Arbeiten an der Schnittstelle von Praxis und Forschung runden das Buch ab **Designing the Information Systems Artefact** Robert Winter,2025-08-30 This book provides essential methodological guidance on IS artifacts to address key challenges in Design

Science Research DSR As a foundation for understanding and categorizing DSR artifacts it proposes a more differentiated empirically justified DSR artifact typology Additionally it presents an artifact type agnostic architecture model for DSR project knowledge offering concrete recommendations for researchers and practitioners alike As most DSR artifacts exist on a wide range of abstraction levels an artifact type agnostic perspective of abstraction is presented and a set of fundamental generalization and contextualization operations is proposed The concept of managed evolution and insights from tension theory are used to propose a collaboration model fostering effective interaction between researchers and practitioners in DSR Finally by associating empirically validated classes of functional requirements with solution classes candidates for general constructional patterns are developed All chapters share a contemporary understanding of DSR artifacts as complex combinations of IT organizational and use elements ranging from algorithms to informal interventions in organizations These artifacts are based on both descriptive knowledge and empirical justifications or ideally both and are exemplified by contextualized instantiations that solve situated problems in organizations or administrations This book provides a unified and practical approach to advancing DSR offering insights for both advanced academic researchers and industry practitioners whose work involves IS artifacts **Design Science Research** Aline Dresch,Daniel Pacheco Lacerda,José Antônio Valle Antunes Jr,2014-08-19 Consolidating existing knowledge in Design Science this book proposes a new research method to aid the exploration of design and problem solving within business science and technology It seeks to overcome a dichotomy that exists in the field between theory and practice to enable researches to find solutions to problems rather than focusing on the explanation and exploration of the problems themselves Currently researches concentrate on to describing exploring explaining and predicting phenomena and little attention is devoted to prescribing solutions Herbert Simon proposes the need to develop a Science of the Artificial Design Science arguing that our reality is much more artificial than natural However the research conducted on the Design Science premises has so far been scattered and erratic in different fields of research such as management systems information and engineering This book aims to address this issue by bringing these fields together and emphasising the need for solutions This book provides a valuable resource to students and researchers of research methods information systems management and management science and production and operations management **Emotional Data Applications and Regulation of Artificial Intelligence in Society** Rosa Ballardini,Rob van den Hoven van Genderen,Sari Järvinen,2025-01-22 This revolutionary new book on using AI to process human emotion data seeks to raise awareness for the topic thoroughly discuss it from a multidisciplinary perspective and by doing so disseminate research findings that elaborate on the current and future regulatory needs for the responsible and ethical development and application of emotional AI Biometric and psychological data of humans are the most sensitive data on human behavior The book s objective is to provide a holistic understanding of key challenges and propose novel workable substantive and methodological solutions for navigating current and future legal and ethical needs and dilemmas regarding

the processes of developing and using emotional AI Although both the academic community and political decision makers continue to intensively discuss issues in the ethical regulation of AI there is still a very limited understanding of both the opportunities and the risks in connection with emotional AI specifically Yet emotional AI is one of the most promising areas of AI developments and applications Several of these innovations could be a welcome change in our society as they could improve our well being in various ways That being said these inventions require considerable investments Thus legal incentives such as IPRs are crucial to supporting investment in these fields Further these innovations might have negative effects on the privacy and autonomy of natural persons raising both legal and ethical concerns Thus their legal and ethical acceptability as well as their societal acceptance might be challenged by several legal provisions in the EU such as the GDPR regulations on communications social platforms and marketing and the draft AI Act Yet the current legal landscape for emotional AI in Europe is anything but clear an aspect that becomes even more apparent when we consider the global picture of the regulatory framework for emotional AI In this book a diverse team of internationally respected experts addresses these issues engaging in a multidisciplinary study into techno economic legal developments concerning emotional AI its impacts and the need for action The book offers in depth scientific and societally relevant insights on the past present and future of AI in general especially its many implications for law and policy Although the primary target audience for the book are academics from the field of law the book also offers sound guidance for legislators and general policymakers as well as companies and organizations   *Design Science at the Intersection of Physical and Virtual Design* Jan vom Brocke,Riitta Hekkala,Sudha Ram,Matti Rossi,2013-06-21 This book constitutes the refereed proceedings of the 8th International Conference on Design Science Research in Information Systems and Technology DESRIST 2013 held in Helsinki Finland in June 2013 The 24 full papers 8 research in progress papers 12 short papers and 8 poster abstracts were carefully reviewed and selected from 93 submissions The papers are organized in topical sections on system integration and design meta issues business process management and ERP theory development emerging themes green IS and service management method engineering papers describing products and prototypes and work in progress papers   *Innovation Through Information Systems* Frederik Ahlemann,Reinhard Schütte,Stefan Stieglitz,2021-10-15 This book presents the current state of research in information systems and digital transformation Due to the global trend of digitalization and the impact of the Covid 19 pandemic the need for innovative high quality research on information systems is higher than ever In this context the book covers a wide range of topics such as digital innovation business analytics artificial intelligence and IT strategy which affect companies individuals and societies This volume gathers the revised and peer reviewed papers on the topic Domain presented at the International Conference on Information Systems held at the University of Duisburg Essen in 2021   Design Science Methodology for the Management Sciences Raymond Opdenakker,Carin Cuijpers,2025-03-03 This textbook is a comprehensive guide to applying design science methodology to solve field problems within and between

organizations Aimed at students managers researchers and professionals in the management sciences this textbook explores how tacit knowledge can be scientifically extracted and transformed into actionable solution concepts or artifacts Key concepts include the co evolution of problem and design spaces the development of design propositions and the creation of practical models protocols and policies The book introduces a new paradigm that balances rigor with relevance detailing how design propositions can lead to real world applications Through its detailed exploration of design science research the book not only offers tools for immediate problem solving but also contributes to the broader body of knowledge in management sciences **MKWI 2012** Dirk C. Mattfeld,Susanne Robra-Bissantz,2012 *Intelligent Information Systems* Luise Pufahl,Kristina Rosenthal,Sergio España,Selmin Nurcan,2025-06-06 This book constitutes the thoroughly refereed proceedings of the CAiSE 2025 Forum and Doctoral Consortium held as part of the 37th International Conference on Advanced Information Systems Engineering CAiSE 2025 during June 2025 This year the conference took place under the theme Bridging Silos The CAiSE Forum is a place for presenting and discussing new ideas and tools related to information systems engineering Intended to serve as an interactive platform the Forum aims at the presentation of emerging new topics and controversial positions as well as demonstration of innovative systems tools and applications It received 23 submissions of which 11 have been accepted 15 submissions were invited from the CAISE main research track The overall 26 papers include 20 vision and 6 tool demonstration papers The Doctoral Consortium aims to attract PhD candidates working on foundations techniques tools and applications in the Information Systems Engineering field The Doctoral Consortium received a total of 27 submissions of which 12 were accepted for presentation **Proceedings of IAC-EIaT 2014** collective of authors,2014-12-02 Conference proceedings International Academic Conference on Engineering Internet and Technology in Prague 2014 IAC EIaT 2014 in Prague Friday Saturday December 12 13 2014 **Digital Product Management in the Era of Data Economy, Artificial Intelligence, and Ecosystems** Dimitri Petrik,Andrey Saltan,Andreas Helferich,2024-10-15 This book constitutes the proceedings of the First International Conference on Digital Product Management ICDPM 2024 which took place in Gothenburg Sweden on June 12 2024 This year s theme was Digital Product Management in the Era of Data Economy Artificial Intelligence and Ecosystems The 6 full papers and 1 short paper included in these proceedings were carefully reviewed and selected from 19 submissions They deal with data driven startups and the agility required in processes and strategies for data centric business models that differ from traditional software business models Practical Aspects of Design Science Markus Helfert,Brian Donnellan,2012-09-11 This book constitutes the refereed proceedings of the European Design Science Symposium EDSS 2011 held in Leixlip Ireland in October 2011 held in conjunction with the Intel European Research and Innovation Conference ERIC 2011 The 15 revised full papers presented were carefully reviewed and selected from various submissions The papers are organized in topical sections on design science and processes evaluation and utility and applying design science *Research Challenges in Information Science*

João Araújo,Jose Luis de la Vara,Maribel Yasmina Santos,Saïd Assar,2024-05-03 This book constitutes the proceedings of the 18th International Conference on Research Challenges in Information Sciences RCIS 2024 which took place in Guimar es Portugal during May 2024 The scope of RCIS is summarized by the thematic areas of information systems and their engineering user oriented approaches data and information management business process management domain specific information systems engineering data science information infrastructures and reflective research and practice The 25 full papers 12 Forum and 5 Doctoral Consortium papers included in these proceedings were carefully reviewed and selected from 100 submissions They were organized in topical sections as follows Part I Data and information management conceptual modelling and ontologies requirements and architecture business process management data and process science security sustainability evaluation and experience studies Part II Forum papers doctoral consortium papers   Service-Oriented Perspectives in Design Science Research Hemant Jain,Atish P. Sinha,Padmal Vitharana,2011-04-21 This book constitutes the refereed proceedings of the 6th International Conference on Service Oriented Perspectives in Design Science Research DERIST 2011 held in Milwaukee WI USA in May 2011 The 29 revised full papers presented together with 5 revised short papers were carefully reviewed and selected from 50 submissions The papers are organized in topical sections on design theory design science research strategies design methods and techniques design evaluation design guidelines service oriented perspectives in design science process design neuroscience in design research and designing for social media

Hochschuldidaktik Informatik (HDI) 2021 Jörg Desel,Simone Opel,Juliane Siegeris,Claude Draude,Gerhard Weber,Timon Schell,Andreas Schwill,Carsten Thorbrügge,Len Ole Schäfer,Cajus Marian Netzer,Dietrich Gerstenberger,Felix Winkelnkemper,Carsten Schulte,Axel Böttcher,Veronika Thurner,Tanja Häfner,Sarah Ottinger,Gregor Große-Bölting,Lukas Scheppach,Andreas Mühling,David Baberowski,Thiemo Leonhardt,Susanne Rentsch,Nadine Bergner,Leif Bonorden,Jonas Stemme,Uwe Hoppe,Karsten Weicker,Esther Bender,Helena Barbas,Fabian Hamann,Marcus Soll,Daniel Sitzmann,2023-11-09 Die Fachtagungen HDI Hochschuldidaktik Informatik besch ftigen sich mit den unterschiedlichen Aspekten informatischer Bildung im Hochschulbereich Neben den allgemeinen Themen wie verschiedenen Lehr und Lernformen dem Einsatz von Informatiksystemen in der Hochschullehre oder Fragen der Gewinnung von geeigneten Studierenden deren Kompetenzerwerb oder auch der Betreuung der Studierenden widmet sich die HDI immer auch einem Schwerpunktthema Im Jahr 2021 war dies die Ber cksichtigung von Diversit t in der Lehre Diskutiert wurden beispielsweise die Einbeziehung von besonderen fachlichen und berfachlichen Kompetenzen Studierender der Unterst tzung von Durchl ssigkeit aus nichtakademischen Berufen aber auch die Gestaltung inklusiver Lehr und Lernszenarios Aspekte des Lebenslangen Lernens oder sich an die Diversit t von Studierenden adaptierte oder adaptierende Lehrsysteme Dieser Band enth lt ausgew hlte Beitr ge der 9 Fachtagung 2021 die in besonderer Weise die Konferenz und die dort diskutierten Themen repr sentieren

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In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Design Science Methodology For Information Systems And Software Engineering**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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