

Vahid Ebrahimipour · Soumaya Yacout  
*Editors*

# Ontology Modeling in Physical Asset Integrity Management



Springer

# Ontology Modeling In Physical Asset Integrity Management

**Roberta Cuel, Robert Young**



## **Ontology Modeling In Physical Asset Integrity Management:**

Ontology Modeling in Physical Asset Integrity Management Vahid Ebrahimipour, Soumaya Yacout, 2015-04-20 This book presents cutting edge applications of and up to date research on ontology engineering techniques in the physical asset integrity domain Though a survey of state of the art theory and methods on ontology engineering the authors emphasize essential topics including data integration modeling knowledge representation and semantic interpretation The book also reflects novel topics dealing with the advanced problems of physical asset integrity applications such as heterogeneity data inconsistency and interoperability existing in design and utilization With a distinctive focus on applications relevant in heavy industry *Ontology Modeling in Physical Asset Integrity Management* is ideal for practicing industrial and mechanical engineers working in the field as well as researchers and graduate concerned with ontology engineering in physical systems life cycles *Data-Driven Cognitive Manufacturing - Applications in Predictive Maintenance and Zero Defect Manufacturing*

Dimitris Kiritsis, Melinda Hodkiewicz, Oscar Lazaro, Jay Lee, Jun Ni, 2021-03-10 **Factories of the Future** Tullio Tolio, Giacomo Copani, Walter Terkaj, 2019-02-14 This book is open access under a CC BY 4.0 license This book presents results relevant in the manufacturing research field that are mainly aimed at closing the gap between the academic investigation and the industrial application in collaboration with manufacturing companies Several hardware and software prototypes represent the key outcome of the scientific contributions that can be grouped into five main areas representing different perspectives of the factory domain 1 Evolutionary and reconfigurable factories to cope with dynamic production contexts characterized by evolving demand and technologies products and processes 2 Factories for sustainable production asking for energy efficiency low environmental impact products and processes new production logics sustainable logistics 3 Factories for the People who need new kinds of interactions between production processes machines and human beings to offer a more comfortable and stimulating working environment 4 Factories for customized products that will be more and more tailored to the final user's needs and sold at cost effective prices 5 High performance factories to yield the due production while minimizing the inefficiencies caused by failures management problems maintenance This book is primarily targeted to academic researchers and industrial practitioners in the manufacturing domain Data-Driven Decision Making for Product Service Systems Giuditta Pezzotta, Roberto Sala, Xavier Boucher, Marco Bertoni, Fabiana Pirola, 2024-06-21 This book is a compilation of theoretical and practical contributions aimed at facilitating the servitization of manufacturing companies specifically focusing on data driven decision making within the context of Product Service Systems PSS Providing a comprehensive overview it discusses the latest breakthroughs in operational tactical and strategic decision making for PSS leveraging data driven processes methodologies and tools Therefore the book significantly contributes to strengthening the knowledge on the use of data driven decision making methods and tools all the phases of the PSS lifecycle From extended warranties and leasing to pay per use and other innovative configurations manufacturing companies are increasingly

adopting servitized business models and PSS to create additional value for their customers and users and create robust relationships with them ensuring more reliable cash flows In this setting effective information management and the utilization of aggregated operational data have become essential for guiding strategic tactical and operational decisions This book not only consolidates theoretical frameworks but also offers practical insights into data driven decision making in PSS providing deep knowledge on how complex decisions can be taken along the various phases of the PSS lifecycle using data driven methods and tools Key areas of focus include 1 In the Beginning of Life introducing new services tailored to customer needs disclosing new business opportunities in terms of revenues and extending the PSS Middle of Life 2 Designing or re designing assets and or services thereby influencing the PSS Beginning of Life 3 Enhancing daily decisions related to asset management to improve the PSS Middle of Life 4 Optimizing daily decisions related to service delivery and management aimed at enhancing the PSS Middle of Life 5 Facilitating informed decisions on recycling remanufacturing refurbishing and revamping impacting the PSS End of Life This book will be of interest to researchers and managers in industry as it offers insights that bridge the gap between theory and practical application in the evolving landscape of PSS

AI and Big Data's Potential for Disruptive Innovation Strydom, Moses, Buckley, Sheryl, 2019-09-27 Big data and artificial intelligence AI are at the forefront of technological advances that represent a potential transformational mega trend a new multipolar and innovative disruption These technologies and their associated management paradigm are already rapidly impacting many industries and occupations but in some sectors the change is just beginning Innovating ahead of emerging technologies is the new imperative for any organization that aspires to succeed in the next decade Faced with the power of this AI movement it is imperative to understand the dynamics and new codes required by the disruption and to adapt accordingly AI and Big Data's Potential for Disruptive Innovation provides emerging research exploring the theoretical and practical aspects of successfully implementing new and innovative technologies in a variety of sectors including business transportation and healthcare Featuring coverage on a broad range of topics such as semantic mapping ethics in AI and big data governance this book is ideally designed for IT specialists industry professionals managers executives researchers scientists and engineers seeking current research on the production of new and innovative mechanization and its disruptions

**Service Orientation in Holonic and Multi-Agent Manufacturing** Theodor Borangiu, Damien Trentesaux, André Thomas, Olivier Cardin, 2018-01-31 This book gathers the peer reviewed papers presented at the seventh edition of the international workshop Service Orientation in Holonic and Multi Agent Manufacturing SOHOMA 17 held on October 19 20 2017 and organized by the University of Nantes France in collaboration with the CIMR Research Centre in Computer Integrated Manufacturing and Robotics at the University Politehnica of Bucharest Romania the LAMIH Laboratory of Industrial and Human Automation Control Mechanical Engineering and Computer Science at the University of Valenciennes and Hainaut Cambr sis France and the CRAN Research Centre for Automatic Control Nancy at the University of Lorraine France The main

objective of SOHOMA 17 was to foster innovation in smart and sustainable manufacturing and logistics systems and in this context to promote concepts methods and solutions addressing trends in service orientation of agent based control technologies with distributed intelligence The book is organized in eight parts each with a number of chapters describing research in current domains of the digital transformation in manufacturing and trends in future service and computing oriented manufacturing control Part 1 Advanced Manufacturing Control Part 2 Big Data Management Part 3 Cyber Physical Production Systems Part 4 Cloud and Cyber Physical Systems for Smart and Sustainable Manufacturing Part 5 Simulation for Physical Internet and Intelligent Sustainable Logistics Systems Part 6 Formal Methods and Advanced Scheduling for Future Industrial Systems Part 7 Applications and Demonstrators Part 8 Production and Logistic Control Systems The contributions focus on how the digital transformation such as the one advocated by Industry 4 0 or Industry of the future concepts can improve the maintainability and the sustainability of manufacturing processes products and logistics Digital transformation relates to the interaction between the physical and informational worlds and is realized by virtualization of products processes and resources managed as services

Bow Ties in Risk Management CCPS (Center for Chemical Process Safety), 2018-09-11 AN AUTHORITATIVE GUIDE THAT EXPLAINS THE EFFECTIVENESS AND IMPLEMENTATION OF BOW TIE ANALYSIS A QUALITATIVE RISK ASSESSMENT AND BARRIER MANAGEMENT METHODOLOGY From a collaborative effort of the Center for Chemical Process Safety CCPS and the Energy Institute EI comes an invaluable book that puts the focus on a specific qualitative risk management methodology bow tie barrier analysis The book contains practical advice for conducting an effective bow tie analysis and offers guidance for creating bow tie diagrams for process safety and risk management Bow Ties in Risk Management clearly shows how bow tie analysis and diagrams fit into an overall process safety and risk management framework Implementing the methods outlined in this book will improve the quality of bow tie analysis and bow tie diagrams across an organization and the industry This important guide Explains the proven concept of bow tie barrier analysis for the preventing and mitigation of incident pathways especially related to major accidents Shows how to avoid common pitfalls and is filled with real world examples Explains the practical application of the bow tie method throughout an organization Reveals how to treat human and organizational factors in a sound and practical manner Includes additional material available online Although this book is written primarily for anyone involved with or responsible for managing process safety risks this book is applicable to anyone using bow tie risk management practices in other safety and environmental or Enterprise Risk Management applications It is designed for a wide audience from beginners with little to no background in barrier management to experienced professionals who may already be familiar with bow ties their elements the methodology and their relation to risk management The missions of both the CCPS and EI include developing and disseminating knowledge skills and good practices to protect people property and the environment by bringing the best knowledge and practices to industry academia governments and the public around the world through collective wisdom tools

training and expertise The CCPS has been at the forefront of documenting and sharing important process safety risk assessment methodologies for more than 30 years The EI s Technical Work Program addresses the depth and breadth of the energy sector from fuels and fuels distribution to health and safety sustainability and the environment The EI program provides cost effective value adding knowledge on key current and future international issues affecting those in the energy sector

**AIoT Innovations in Digital Health** Inam Ullah Khan,Salma El Hajjami,Shashi Kant Gupta,Hameedur Rahman,Thiagarajan Yogamoorthi,Inam Ullah,Muhammad Adnan Khan,2025-05-21 Artificial Intelligence AI innovations in digital health offer unprecedented opportunities to facilitate human health and provide tools and techniques that reduce overall costs This book discusses the use of AI to improve diagnostic accuracy patient monitoring the use of remote diagnostic tools identification of life threatening diseases medical robotics applications drug discovery technology driven solutions and much more AIoT Innovations in Digital Health Emerging Trends Challenges and Solutions presents integrated technologies such as Green Computing IoT and Big Data using AI Machine Learning Deep Learning and Federated Learning for Healthcare It discusses the future of medical robotics using Machine Learning and highlights the use of Federated Learning based patient monitoring applications This book also elaborates on the role that AI and Machine Learning play in drug discovery Interested readers will include anyone working in or involved in smart healthcare research which includes but is not limited to healthcare specialists computer science engineers electronics engineers systems engineers and pharmaceutical practitioners

**Functional Safety and Proof of Compliance** Thor Myklebust,Tor Stålhane,2022-01-03 This book aims to facilitate and improve development work related to all documents and information required by functional safety standards Proof of Compliance PoC is important for the assessor and certification bodies when called up to confirm that the manufacturer has developed a software system according to the required safety standards While PoC documents add functionality to the product neither for the developer nor for the customer they do add confidence and trust to the product and ease certification and as such are important for the product s value In spite of this added value the documentation needed for PoC is often developed late in the project and in a haphazard manner This book aims at developers assessors certification bodies and purchasers of safety instrumented systems and informs the reader about the most important PoC documents A typical PoC documentation encompasses 50 to 200 documents several of which are named in the safety standards e g 82 documents in IEC 61508 2010 series 101 documents in EN 5012X series and 106 work products in ISO 26262 2018 series These documents also include further references typically one to twenty of them and the total number of pages developed by the manufacturer varies between 2000 and 10000 pages The book provides guidance and examples what to include in the relevant plans and documents

**Generation and Update of a Digital Twin in a Process Plant** Josip Stjepandić,Johannes Lützenberger,Philipp Kremer,2024-01-01 This book covers the most important subjects of digital twin in a process plant including foundations methods achievements and applications in a brownfield environment Besides offering a

variety of applications and procedural variants from research and industrial practice this book also provides a comprehensive insight into holistic plant planning It also discusses the challenges that currently exist in different application areas This book would be of interest to industry professionals and researchers in industrial and manufacturing engineering

**Machine Learning and Data Science in the Power Generation Industry** Patrick Bangert, 2021-01-14 Machine Learning and Data Science in the Power Generation Industry explores current best practices and quantifies the value add in developing data oriented computational programs in the power industry with a particular focus on thoughtfully chosen real world case studies It provides a set of realistic pathways for organizations seeking to develop machine learning methods with a discussion on data selection and curation as well as organizational implementation in terms of staffing and continuing operationalization It articulates a body of case study driven best practices including renewable energy sources the smart grid and the finances around spot markets and forecasting Provides best practices on how to design and set up ML projects in power systems including all nontechnological aspects necessary to be successful Explores implementation pathways explaining key ML algorithms and approaches as well as the choices that must be made how to make them what outcomes may be expected and how the data must be prepared for them Determines the specific data needs for the collection processing and operationalization of data within machine learning algorithms for power systems Accompanied by numerous supporting real world case studies providing practical evidence of both best practices and potential pitfalls

**Machine Learning and Data Science in the Oil and Gas Industry** Patrick Bangert, 2021-03-04 Machine Learning and Data Science in the Oil and Gas Industry explains how machine learning can be specifically tailored to oil and gas use cases Petroleum engineers will learn when to use machine learning how it is already used in oil and gas operations and how to manage the data stream moving forward Practical in its approach the book explains all aspects of a data science or machine learning project including the managerial parts of it that are so often the cause for failure Several real life case studies round out the book with topics such as predictive maintenance soft sensing and forecasting Viewed as a guide book this manual will lead a practitioner through the journey of a data science project in the oil and gas industry circumventing the pitfalls and articulating the business value Chart an overview of the techniques and tools of machine learning including all the non technological aspects necessary to be successful Gain practical understanding of machine learning used in oil and gas operations through contributed case studies Learn change management skills that will help gain confidence in pursuing the technology Understand the workflow of a full scale project and where machine learning benefits and where it does not

*Formal Ontologies Meet Industry* Roberta Cuel, Robert Young, 2015-07-24 This book constitutes the proceedings of the 7th International Formal Ontologies Meet Industries Workshop held in Berlin Germany in August 2015 The 11 full research papers accepted for FOMI 2015 were selected from 18 submissions The papers focus on theoretical studies of formal ontologies committed to provide a sound basis for industrial applications and to allow formal representation of corporate

knowledge and on business experiences in case studies that single out concrete problems and possible solutions in the creation and deployment of formal ontologies Overall they provide valuable insights into the current state of progress in supporting industrial information and knowledge sharing through the development of formal ontologies     **A**

**Process-Centric View on Predictive Maintenance and Fleet Prognostics. Development of a Process Reference Model and a Development Method for Fleet Prognostics to Guide Predictive Maintenance Projects** Carolin

Wagner,2022-08-12 In the age of digitalization and the fourth industrial revolution predictive maintenance is becoming increasingly important as a proactive maintenance type Despite the economic benefits that predictive maintenance generates for companies its practical application is still in its early stages This is often due to two prevailing challenges First there is a deficiency of knowledge about predictive maintenance and its concrete realization Second there is a lack of high quality and rich data of historical machine failures To increase the representativeness of data data from several similar machines i e a fleet should be considered To foster the effective implementation of predictive maintenance supportive guidance in the realization of a predictive maintenance project is needed For this reason this dissertation presents a process reference model and a development method for fleet prognostics The process reference model describes a comprehensive and application independent view of the complete predictive maintenance process The model is supplemented by the fleet prognostic development method To address the specific characteristics of the fleet a systematic process is depicted which provides a means to assess the heterogeneity of the fleet from a data driven perspective and simplifies the design of an algorithm considering fleet data Finally the applicability and value of the research results are demonstrated with three industrial cases

**Internet of Things: Novel Advances and Envisioned Applications** D. P. Acharjya,M. Kalaiselvi Geetha,2017-04-19

This book focuses on a combination of theoretical advances in the Internet of Things cloud computing and its real life applications to serve society The book discusses technological innovations authentication mobility support and security group rekeying schemes and a range of concrete applications The Internet has restructured not only global interrelations but also an unbelievable number of personal characteristics Machines are increasingly able to control innumerable autonomous gadgets via the Internet creating the Internet of Things which facilitates intelligent communication between humans and things and among things The Internet of Things is an active area of current research and technological advances have been supported by real life applications to establish their soundness The material in this book includes concepts figures graphs and tables to guide researchers through the Internet of Things and its applications for society     Collaborative Networks in

Digitalization and Society 5.0 Luis M. Camarinha-Matos,Xavier Boucher,Angel Ortiz,2023-09-18 This book constitutes the refereed proceedings of the 24th IFIP WG 5.5 Working Conference on Virtual Enterprises PRO VE 2023 held in Valencia Spain in September 2023 The 59 papers presented in this book were carefully reviewed and selected from 119 submissions They provide a comprehensive overview of the major challenges in sustainability of collaborative ecosystems risks security



and resilience in networks collaborative value creation and services collaborative interactions and human centered networks skills and enabling technologies collaborative healthcare and agile production and AI digital twins and intelligent frameworks

Managing the Web of Things Michael Sheng, Yongrui Qin, Lina Yao, Boualem Benatallah, 2017-02-10 Managing the Web of Things Linking the Real World to the Web presents a consolidated and holistic coverage of engineering management and analytics of the Internet of Things The web has gone through many transformations from traditional linking and sharing of computers and documents i e Web of Data to the current connection of people i e Web of People and to the emerging connection of billions of physical objects i e Web of Things With increasing numbers of electronic devices and systems providing different services to people Web of Things applications present numerous challenges to research institutions companies governments international organizations and others This book compiles the newest developments and advances in the area of the Web of Things ranging from modeling searching and data analytics to software building applications and social impact Its coverage will enable effective exploration understanding assessment comparison and the selection of WoT models languages techniques platforms and tools Readers will gain an up to date understanding of the Web of Things systems that accelerates their research Offers a comprehensive and systematic presentation of the methodologies technologies and applications that enable efficient and effective management of the Internet of Things Provides an in depth analysis on the state of the art Web of Things modeling and searching technologies including how to collect clean and analyze data generated by the Web of Things Covers system design and software building principles with discussions and explorations of social impact for the Web of Things through real world applications Acts as an ideal reference or recommended text for graduate courses in cloud computing service computing and more Electronic Business Interoperability: Concepts, Opportunities and Challenges Kajan, Ejub, 2011-03-31 Interoperability is a topic of considerable interest for business entities as the exchange and use of data is important to their success and sustainability Electronic Business Interoperability Concepts Opportunities and Challenges analyzes obstacles provides critical assessment of existing approaches and reviews recent research efforts to overcome interoperability problems in electronic business It serves as a source of knowledge for researchers educators students and industry practitioners to share and exchange their most current research findings ideas practices challenges and opportunities concerning electronic business interoperability Exploring the Advancements and Future Directions of Digital Twins in Healthcare 6.0 Dubey, Archi, Kumar Reddy, C. Kishor, Doss, Srinath, Hanafiah, Marlia Mohd, 2024-07-18 The healthcare industry is increasingly complex demanding personalized treatments and efficient operational processes Traditional research methods need help to keep pace with these demands often leading to inefficiencies and suboptimal outcomes Integrating digital twin technology presents a promising solution to these challenges offering a virtual platform for modeling and simulating complex healthcare scenarios However the full potential of digital twins still needs to be explored mainly due to a lack of comprehensive guidance and practical insights for

researchers and practitioners Exploring the Advancements and Future Directions of Digital Twins in Healthcare 6 0 is not just a theoretical exploration It is a practical guide that bridges the gap between theory and practice offering real world case studies best practices and insights into personalized medicine real time patient monitoring and healthcare process optimization By equipping you with the knowledge and tools needed to effectively integrate digital twins into your healthcare research and operations this book is a valuable resource for researchers academicians medical practitioners scientists and students

*Research Companion to Building Information Modeling* Lu, Weisheng, Anumba, Chimay J., 2022-03-22 Offering critical insights to the state of the art in Building Information Modeling BIM research and development this book outlines the prospects and challenges for the field in this era of digital revolution Analysing the contributions of BIM across the construction industry it provides a comprehensive survey of global BIM practices

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