

Vahid Ebrahimipour · Soumaya Yacout  
*Editors*

# Ontology Modeling in Physical Asset Integrity Management

# Ontology Modeling In Physical Asset Integrity Management

**Giuditta Pezzotta, Roberto Sala, Xavier  
Boucher, Marco Bertoni, Fabiana Pirola**

## **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

## **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     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     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 de 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 books is primarily targeted to academic

researchers and industrial practitioners in the manufacturing domain 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 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 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

*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

### **Current Index to Journals in Education ,1998**

*Engineering Asset Management 2011* Jay Lee, Jun Ni, Jagnathan Sarangapani, Joseph Mathew, 2013-07-30 This text represents state of the art trends and developments in the emerging field of engineering asset management as presented at the Sixth World Congress on Engineering Asset Management WCEAM held in Cincinnati OH USA from October 3 5 2011 The Proceedings of the WCEAM 2011 is an excellent reference for practitioners researchers and students in the multidisciplinary field of asset management covering topics such as Asset condition monitoring and intelligent maintenance Asset data warehousing data mining and fusion Asset performance and level of service models Design and lifecycle integrity of physical assets Deterioration and preservation models for assets Education and training in asset management Engineering standards in asset management Fault diagnosis and prognostics Financial analysis methods for physical assets Human dimensions in integrated asset management Information quality management Information systems

and knowledge management Intelligent maintenance Intelligent sensors and devices Maintenance strategies in asset management Optimization decisions in asset management Prognostics Risk management in asset management Strategic asset management and Sustainability in asset management Engineering Asset Management Dimitris Kirtsis, Christos Emmanouilidis, Andy Koronios, Joseph Mathew, 2011-02-03 Engineering Asset Management discusses state of the art trends and developments in the emerging field of engineering asset management as presented at the Fourth World Congress on Engineering Asset Management WCEAM It is an excellent reference for practitioners researchers and students in the multidisciplinary field of asset management covering such topics as asset condition monitoring and intelligent maintenance asset data warehousing data mining and fusion asset performance and level of service models design and life cycle integrity of physical assets deterioration and preservation models for assets education and training in asset management engineering standards in asset management fault diagnosis and prognostics financial analysis methods for physical assets human dimensions in integrated asset management information quality management information systems and knowledge management intelligent sensors and devices maintenance strategies in asset management optimisation decisions in asset management risk management in asset management strategic asset management and sustainability in asset management

**Guidelines for Asset Integrity Management** American Institute of Chemical Engineers. Center for Chemical Process Safety, 2017 Engineering Asset Management - Systems, Professional Practices and Certification Peter W. Tse, Joseph Mathew, King Wong, Rocky Lam, C.N. Ko, 2014-12-09 This proceeding represents state of the art trends and developments in the emerging field of engineering asset management as presented at the Eight World Congress on Engineering Asset Management WCEAM The Proceedings of the WCEAM 2013 is an excellent reference for practitioners researchers and students in the multidisciplinary field of asset management covering topics such as Asset condition monitoring and intelligent maintenance 2 Asset data warehousing data mining and fusion 3 Asset performance and level of service models 4 Design and life cycle integrity of physical assets 5 Deterioration and preservation models for assets 6 Education and training in asset management 7 Engineering standards in asset management 8 Fault diagnosis and prognostics 9 Financial analysis methods for physical assets 10 Human dimensions in integrated asset management 11 Information quality management 12 Information systems and knowledge management 13 Intelligent sensors and devices 14 Maintenance strategies in asset management 15 Optimisation decisions in asset management 16 Risk management in asset management 17 Strategic asset management 18 Sustainability in asset management King WONG served as Congress Chair for WCEAM 2013 and ICUMAS 2013 is the President of the Hong Kong Institute of Utility Specialists HKIUS and Convener of International Institute of Utility Specialists IIUS Peter TSE is the Director of the Smart Engineering Asset Management laboratory SEAM at the City University of Hong Kong and served as the Chair of WCEAM 2013 Organising Committee Joseph MATHEW served as the Co Chair of WCEAM 2013 is also WCEAM's General Chair He is the Chief Executive Officer of Asset Institute Australia Asset

Modelling Framework for Use in Computerised Physical Asset Management Systems Craig Anthony Henry,2017 **Physical Asset Management** Nicholas Anthony John Hastings,2015-02-21 Significantly extended from the first edition and published in response to the new international standard ISO55000 this book on physical asset management 2nd Ed presents a systematic approach to the management of physical assets from concept to disposal It introduces the general principles of physical asset management and covers all stages of the asset management process including initial business appraisal identification of fixed asset needs capability gap analysis financial evaluation logistic support analysis life cycle costing management of in service assets maintenance strategy outsourcing cost benefit analysis disposal and renewal Physical asset management is the management of fixed assets such as equipment plant buildings and infrastructure Features include Suitable for university courses and builds on first edition to provide further analytical material Aligned with the international asset management standard ISO55000 Provides a basis for the establishment of physical asset management as a professional discipline Presents case studies analytical techniques and numerical examples with solutions Written for practitioners and students in asset management this textbook provides an essential foundation to the topic It is suitable for an advanced undergraduate or postgraduate course in asset management and also offers an ideal reference text for engineers and managers specializing in asset management reliability maintenance logistics or systems engineering

**Physical Asset Management** Nicholas Anthony John Hastings,2021-01-12 This book presents a systematic approach to the management of physical assets from concept to disposal building upon the previous editions and brought up to date with the new international standards ISO55002 and ISO TS50010 It introduces the general principles of physical asset management and covers all stages of the asset management process including initial business appraisal identification of physical asset needs capability gap analysis financial evaluation logistic support analysis life cycle costing strategic asset management planning maintenance strategy outsourcing cost benefit analysis disposal and renewal Features include providing a textbook for asset management courses to university level relating closely to the ISO55000 international asset management standard series providing a basis for the establishment of physical asset management as a professional discipline and presenting case studies analytical techniques and numerical examples with solutions Written for practitioners and students in asset management this book provides an essential foundation to the topic It is suitable for an advanced undergraduate or postgraduate course in asset management and also offers an ideal reference text for engineers and managers specializing in asset management reliability maintenance logistics or systems engineering

Physical Asset Management for a Sustainable World Josae Manuel Torres Farinha,2024-10 **Ensuring Asset Optimization Through Ontology-based Modelling of Technical Documentation** Andreas Koukias,Dimitrios Kyrtsis (Ingenieur),2014 **Asset Integrity Management Systems Standard Requirements** Gerardus Blokdyk,2018-08-24 What other areas of the organization might benefit from the Asset integrity management systems team s improvements knowledge and learning How does the Asset integrity management

systems manager ensure against scope creep Does Asset integrity management systems analysis isolate the fundamental causes of problems How do we measure improved Asset integrity management systems service perception and satisfaction Will Asset integrity management systems deliverables need to be tested and if so by whom This instant Asset integrity management systems self assessment will make you the established Asset integrity management systems domain standout by revealing just what you need to know to be fluent and ready for any Asset integrity management systems challenge How do I reduce the effort in the Asset integrity management systems work to be done to get problems solved How can I ensure that plans of action include every Asset integrity management systems task and that every Asset integrity management systems outcome is in place How will I save time investigating strategic and tactical options and ensuring Asset integrity management systems costs are low How can I deliver tailored Asset integrity management systems advice instantly with structured going forward plans There s no better guide through these mind expanding questions than acclaimed best selling author Gerard Blokdyk Blokdyk ensures all Asset integrity management systems essentials are covered from every angle the Asset integrity management systems self assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Asset integrity management systems outcomes are achieved Contains extensive criteria grounded in past and current successful projects and activities by experienced Asset integrity management systems practitioners Their mastery combined with the easy elegance of the self assessment provides its superior value to you in knowing how to ensure the outcome of any efforts in Asset integrity management systems are maximized with professional results Your purchase includes access details to the Asset integrity management systems self assessment dashboard download which gives you your dynamically prioritized projects ready tool and shows you exactly what to do next Your exclusive instant access details can be found in your book You will receive the following contents with New and Updated specific criteria The latest quick edition of the book in PDF The latest complete edition of the book in PDF which criteria correspond to the criteria in The Self Assessment Excel Dashboard and Example pre filled Self Assessment Excel Dashboard to get familiar with results generation plus an extra special resource that helps you with project managing INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books Lifetime Updates is an industry first feature which allows you to receive verified self assessment updates ensuring you always have the most accurate information at your fingertips

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### **Table of Contents Ontology Modeling In Physical Asset Integrity Management**

1. Understanding the eBook Ontology Modeling In Physical Asset Integrity Management
  - The Rise of Digital Reading Ontology Modeling In Physical Asset Integrity Management
  - Advantages of eBooks Over Traditional Books
2. Identifying Ontology Modeling In Physical Asset Integrity Management
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Ontology Modeling In Physical Asset Integrity Management
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ontology Modeling In Physical Asset Integrity Management
  - Personalized Recommendations

- Ontology Modeling In Physical Asset Integrity Management User Reviews and Ratings
- Ontology Modeling In Physical Asset Integrity Management and Bestseller Lists

5. Accessing Ontology Modeling In Physical Asset Integrity Management Free and Paid eBooks

- Ontology Modeling In Physical Asset Integrity Management Public Domain eBooks
- Ontology Modeling In Physical Asset Integrity Management eBook Subscription Services
- Ontology Modeling In Physical Asset Integrity Management Budget-Friendly Options

6. Navigating Ontology Modeling In Physical Asset Integrity Management eBook Formats

- ePUB, PDF, MOBI, and More
- Ontology Modeling In Physical Asset Integrity Management Compatibility with Devices
- Ontology Modeling In Physical Asset Integrity Management Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Ontology Modeling In Physical Asset Integrity Management
- Highlighting and Note-Taking Ontology Modeling In Physical Asset Integrity Management
- Interactive Elements Ontology Modeling In Physical Asset Integrity Management

8. Staying Engaged with Ontology Modeling In Physical Asset Integrity Management

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Ontology Modeling In Physical Asset Integrity Management

9. Balancing eBooks and Physical Books Ontology Modeling In Physical Asset Integrity Management

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Ontology Modeling In Physical Asset Integrity Management

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Ontology Modeling In Physical Asset Integrity Management

- Setting Reading Goals Ontology Modeling In Physical Asset Integrity Management
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Ontology Modeling In Physical Asset Integrity Management

- Fact-Checking eBook Content of Ontology Modeling In Physical Asset Integrity Management

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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