
Preventive Predictive And Corrective Maintenance

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FINAL THOUGHT

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Complete Guide to Preventive and Predictive Maintenance *Industrial Press Inc.*

A culmination of 15 years of research, teaching, and consulting, this book shares the best practices, mistakes, victories, and essential steps for success which the author has gleaned from working with countless organizations. Unlike other books that only focus on the engineering issues (task lists) or management issues (CMMS), this in-depth resource is the first to give true emphasis to the four aspects of success in preventive maintenance systems--engineering, management, economic, and psychological -- thereby enabling readers to have a balanced view and understanding of what is happening in their organizations. Additionally, it blends concrete actionable steps and structures with the theory behind the steps.

An Introduction to Predictive Maintenance *Elsevier*

This second edition of An Introduction to Predictive Maintenance helps plant, process, maintenance and reliability managers and engineers to develop and implement a comprehensive maintenance management program, providing proven strategies for regularly monitoring critical process equipment and systems, predicting machine failures, and scheduling maintenance accordingly. Since the publication of the first edition in 1990, there have been many changes in both technology and methodology, including financial implications, the role of a maintenance organization, predictive maintenance techniques, various analyses, and maintenance of the program itself. This revision includes a complete update of the applicable chapters from the first edition as well as six additional chapters outlining the most recent information available. Having already been implemented and maintained successfully in hundreds of manufacturing and process plants worldwide, the practices detailed in this second edition of An Introduction to Predictive Maintenance will save plants and corporations, as well as U.S. industry as a whole, billions of dollars by minimizing unexpected equipment failures and its resultant high maintenance cost while increasing productivity. A comprehensive introduction to a system of monitoring critical industrial equipment Optimize the availability of process machinery and greatly reduce the cost of maintenance Provides the means to improve product quality, productivity and profitability of manufacturing and production plants

Automated Diagnostics and Analytics for Buildings *CRC Press*

With the widespread availability of high-speed, high-capacity microprocessors and microcomputers with high-speed communication ability, and sophisticated energy analytics software, the technology to support deployment of automated diagnostics is now available, and the opportunity to apply automated fault detection and diagnostics to every system and piece of equipment in a facility, as well as for whole buildings, is imminent. The purpose of this book is to share information with a broad audience on the state of automated fault detection and diagnostics for buildings applications, the benefits of those applications, emerging diagnostic technology, examples of field deployments, the relationship to codes and standards, automated diagnostic tools presently available, guidance on how to use automated diagnostics, and related issues.

Industrial Maintenance: Mechanical Fundamentals and Practices

The smooth functioning of an industrial plant requires a number of corrective, preventive and

predictive maintenance strategies. Such strategies involve operational and functional checks, repair and replacement of components, servicing, building infrastructure, etc. Preventive maintenance is performed with the intent of avoiding failures, production costs, losses and safety violations. Corrective maintenance is applied to malfunctioning equipment, and may involve processes such as welding, metal flame spraying, etc. Due to the advent of sensing and computing technology, predictive maintenance has become a possibility. It involves sensors to monitor key parameters of the system health and predict any breakdown before it happens. This textbook is a compilation of chapters that discuss the most vital concepts in the field of industrial maintenance. Different approaches, evaluations and methodologies in this field have been included in this book. It will serve as a reference to all professionals and students associated with this field.

Energy Centered Maintenance

A Green Maintenance System *CRC Press*

Energy Centered Maintenance proves a detailed description of how to implement Energy Centered Maintenance (ECM) at any organization. It includes a new six-step technical process with detailed instructions of each of these steps explained with clear examples. Areas covered include preventative maintenance, predictive maintenance and reliability centered maintenance. ECM uses energy consumption excesses or energy waste as the primary criterion for determining specific maintenance or repair needs. Therefore, the primary purpose of this book is to provide strategies to reduce energy use by identifying equipment or items that can become energy hogs while still performing their function and prevent that from occurring. The primary reasons organizations need ECM is due to poor maintenance of energy-using systems and energy losses from motors not turning off when they should. The book includes ECM for electrical, mechanical, building transportation, HVAC, fire-fighting, water supply, drainage and storm water management systems. In some cases, ECM in data centers can help reduce energy consumption by as much as 30%. The six-step process detailed in this text will enable any organization to implement ECM in an orderly, cost effective manner thus improving your equipment and machines, lowering your energy consumption and helping save the planet.

The Competitive Edge

Research Priorities for U.S. Manufacturing *National Academies Press*

To maintain competitiveness in the emerging global economy, U.S. manufacturing must rise to new standards of product quality, responsiveness to customers, and process flexibility. This volume presents a concise and well-organized analysis of new research directions to achieve these goals. Five critical areas receive in-depth analysis of present practices, needed improvement, and research priorities: Advanced engineered materials that offer the prospect of better life-cycle performance and other gains. Equipment reliability and maintenance practices for better returns on capital investment. Rapid product realization techniques to speed delivery to the marketplace. Intelligent manufacturing control for improved reliability and greater precision. Building a workforce with the

multidisciplinary skills needed for competitiveness. This sound and accessible analysis will be useful to manufacturing engineers and researchers, business executives, and economic and policy analysts.

Benchmarking Best Practices in Maintenance Management *Industrial Press Inc.*

"As the only reference that provides vital information in a concise and easy-to-use format, Benchmarking Best Practices in Maintenance Management will provide users with all the necessary tools to be successful in benchmarking maintenance management. As a revision of the author's previously successful resource, World Class Maintenance Management, it presents a logical, step-by-step methodology that will enable a company to conduct a cost-effective benchmarking effort. It presents an overview of the benchmarking process, a self analysis, and a database of the results of more than 100 companies that have used the analysis. "This is an excellent reference manual. I believe it should be in the hands of every manager, engineer, and supervisor in the maintenance field." --James A. Collier, University of Arkansas"

Effective Maintenance Management

Risk and Reliability Strategies for Optimizing Performance *Industrial Press Inc.*

Utilize your assets effectively, safely, and profitably.

An Integrated Production and Preventive Maintenance Planning Model for an Ageing and Deteriorating Production Systems with Limited Historical Data

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Reliability and Safety Engineering *Springer Science & Business Media*

Reliability and safety are core issues that must be addressed throughout the life cycle of engineering systems. Reliability and Safety Engineering presents an overview of the basic concepts, together with simple and practical illustrations. The authors present reliability terminology in various engineering fields, viz., • electronics engineering, • software engineering, • mechanical engineering, • structural engineering, and • power systems engineering. They describe the latest applications in the area of probabilistic safety assessment, such as technical specification optimization, risk monitoring and risk informed in-service inspection. Reliability and safety studies must, inevitably, deal with uncertainty, so the book includes uncertainty propagation methods: Monte Carlo simulation, fuzzy arithmetic, Dempster-Shafer theory and probability bounds. Reliability and Safety Engineering also highlights advances in system reliability and safety assessment including dynamic system modeling and uncertainty management. Case studies from typical nuclear power plants, as

well as from structural, software, and electronic systems are also discussed. Reliability and Safety Engineering combines discussions of the existing literature on basic concepts and applications with state-of-the-art methods used in reliability and risk assessment of engineering systems. It is designed to assist practicing engineers, students and researchers in the areas of reliability engineering and risk analysis.

Building Care *John Wiley & Sons*

Building care encompasses everything from maintenance of a building to energy conservation and range of approaches, including the effects on design. A range of approaches to looking after buildings and their users is covered in this book. The rationale and conditions that support them (e.g. PPM - preventative planned maintenance; JIT - just in time) are explained, together with the commercial and environmental imperatives driving new approaches to building care.

Reciprocating Compressors:

Operation and Maintenance *Gulf Professional Publishing*

Reciprocating compressors and their applications. Design and materials of reciprocating compressor components. Operation and maintenance of reciprocating compressors. Overhaul and repair of reciprocating compressors. Troubleshooting compressor problems. Preventive maintenance of reciprocating compressors. Safety in operation and maintenance. Appendix: Reciprocating compressor calculations. Index.

Asset Maintenance Management

A Guide to Developing Strategy & Improving Performance *Industrial Press Inc.*

Edited by an expert in the maintenance field, and with in-depth contributions from professionals in asset maintenance management, as well as consultants, university instructors, and experts in specific maintenance techniques, Asset Maintenance Management contains a wealth of information never before gathered in one package! Providing companies with the methods, strategies, and practices that will help efficiently and effectively direct and shape their asset management operations, this comprehensive reference is sure to be found useful by supervisors, plant managers, and directors who own, manage, or service physical plants.

Configuring Plant Maintenance in SAP S/4HANA

"Whether you know it as plant maintenance or asset management, this is the only guide you need to set it up in SAP S/4HANA! Start by planning your plant maintenance implementation, and then jump into configuring the organizational structure and system-wide functions. Use step-by-step instructions to set up your technical systems, from your equipment and fleet to your materials and assemblies. If you're looking to configure breakdown maintenance, corrective maintenance, preventive maintenance, predictive maintenance, or all four, this is the book for you!"--

Practical Machinery Vibration Analysis and Predictive Maintenance *Elsevier*

Machinery Vibration Analysis and Predictive Maintenance provides a detailed examination of the detection, location and diagnosis of faults in rotating and reciprocating machinery using vibration analysis. The basics and underlying physics of vibration signals are first examined. The acquisition and processing of signals is then reviewed followed by a discussion of machinery fault diagnosis using vibration analysis. Hereafter the important issue of rectifying faults that have been identified using vibration analysis is covered. The book also covers the other techniques of predictive maintenance such as oil and particle analysis, ultrasound and infrared thermography. The latest approaches and equipment used together with the latest techniques in vibration analysis emerging from current research are also highlighted. Understand the basics of vibration measurement Apply vibration analysis for different machinery faults Diagnose machinery-related problems with vibration analysis techniques

Risk Assessment Of Power Systems

Models, Methods, and Applications *John Wiley & Sons*

"Risk Assessment of Power Systems closes the gap between risk theory and real-world application. As a leading authority in power system risk evaluation for more than fifteen years and the author of a considerable number of papers and more than fifty technical reports on power system risk and reliability evaluation, Wenyan Li is uniquely qualified to present this material. Following the models and methods developed from the author's hands-on experience, readers learn how to evaluate power system risk in planning, design, operations, and maintenance activities to keep risk at targeted levels."--BOOK JACKET.

Maintenance Audits Handbook

A Performance Measurement Framework *CRC Press*

Maintenance Audits Handbook: A Performance Measurement Framework explores the maintenance function and performance of an organization, and outlines the key aspects required for an effective and efficient maintenance performance measurement (MPM) system. Incorporating different aspects of traditional literature and considering various frameworks on the subject, it examines the auditing process as well as the use and development of maintenance metrics. It identifies different frameworks and models showcasing how MPM systems should be implemented as well as the values that are created when different frameworks are used. The book presents performance indicators within a framework that classifies and sorts according to functional and hierarchical aspects. It introduces techniques that can help determine the right set of performance indicators. It also outlines a process that combines both numerical indicators with the classical result of massive questionnaires successfully incorporating both the quantitative and qualitative aspects of maintenance performance. In addition, the author provides examples of MPM frameworks that are used in organizations with condition-based, vibration-based, and reliability-centered maintenance. A useful handbook for students and maintenance professionals, this book provides readers with an

understanding of how to Align the organizational strategy to the strategies of the maintenance function Link the maintenance performance measures to the different hierarchies of the organization and establish effective communication between them Translate the MPis at operational level to the corporate level (to create value for the whole organization and its customers) Identify the weaknesses and strengths of the implemented maintenance strategy Maintenance Audits Handbook: A Performance Measurement Framework provides readers with a sound foundation for developing and measuring a comprehensive maintenance improvement strategy using qualitative and quantitative data, and serves as an ideal resource for maintenance/mechanical engineers, maintenance/performance/business/production managers and industry professionals involved in maintenance.

Maximizing Machinery Uptime *Elsevier*

The authors use their decades of experience and draw upon real-world examples to demonstrate that the application of their techniques provides a basis for equipment management, uptime maximization, and reduced maintenance costs. The text explores reliability assessment techniques such as Failure Mode, Effect Analysis, and Fault Tree Analysis of commonly encountered rotating machinery. These are all highly effective techniques that the engineer can apply to maximize uptime and thereby maximize production and profitability. *Provides the tools to drastically improve machinery productivity and performance *Bridges the gap between the theory of "reliability engineering" and the practical day-to-day measures that lead to machinery uptime *Authoritative reference for maximizing the uptime of process equipment

Building Maintenance Processes and Practices

The Case of a Fast Developing Country *Springer*

This book is designed to be an inclusive for the best practice approach to building maintenance management, where the processes, procedures and operational systems meet a high standard of professional and academic competence. It offers a different perspective on building maintenance management by presenting the schematic building maintenance value chain model and it's implementation in Malaysian university buildings. The findings show an improvement to building performance, lower maintenance cost, building sustainability and increased maintenance service user satisfaction. The learning outcomes and summaries provided for each chapter and the extensive use of tables and figures add to the readability of the text. Though the book is based on data from Malaysia, it is useful for a much wider audience, and the informal writing style makes it an interesting reference source. This book is valuable for readers who are practitioners, professionals and for academic institutions that offer courses in the building field, including architecture, quantity surveying, civil engineering, building and facility management, property management, real estate. It will also be of interest to governments and others involved in the construction industry.

Enlightenment

New Public Excellence from Tired Work Cultures! *Xlibris Corporation*

The Statue of Liberty likeness illustrated on the cover of Enlightenment is a very symbolic image not only for Americans but for many other people of the world who harbor dreams for life, liberty, and the pursuit of happiness. However, there are many individual and collective responsibilities that come with any such vision. Most Americans know orderly governmental systems are required to maintain a civilized culture, but in many societies one often wonders what type is most appropriate. While the western democracy structure has had significant success to date, it is far from perfect even within the United States. The author has spent the past forty years working within national and international governmental systems from the grass roots local level to regional, state, and federal jurisdictions. In this book, he notes the timeless lessons learned from experience and history as well as new and innovative ways to utilize the modern age of information technology. The net result is an effort to create new public excellence from tired work cultures. In the future, it is clear that economic globalization with its associated social and cultural impacts will bring about a new competition between many societies and their related governmental structures. This simple reality means that less efficient future governments will jeopardize the very viability of their own cultures. Therefore, if Americans wish to effectively compete on the coming international level of tomorrow, they must get their collective governmental house in order today. Enlightenment illustrates how a healthy competitive environment can be developed and sustained without jeopardizing any of the freedoms and opportunities we have come to expect.

Facility Integrity Management

Effective Principles and Practices for the Oil, Gas and Petrochemical Industries *Gulf Professional Publishing*

Facility Integrity Management: Effective Principles and Practices for the Oil, Gas and Petrochemical Industries presents the information needed to completely understand common failures in the facility integrity management process. By understanding this more comprehensive approach, companies will be able to better identify shortcomings within their respective system that they did not realize existed. To introduce this method, the book provides managers and engineers with a model that ensures major process incidents are avoided, aging facilities are kept in a safe and reliable state and are operating at maximum levels, and any gaps within the integrity management system are identified and addressed, such as the all too common fragmented reliability programs. The book approaches oil and gas facility management from a universal perspective, effectively charting out existing oil and gas facilities and their associated work processes, including maintenance, operations, and reliability, and then reconstructs them in order to optimize the way integrity is managed, creating a synergy across the various elements. Easy to read, packed with practical applications applied to real process plant scenarios such as key concepts, process flow charts, handy checklists, real-world case studies and a dictionary, provides a high quality guide for a breakdown free facility, maximizing productivity and return to shareholders. Helps readers gain a practical and industry specific approach to facility integrity management supported with real-world case studies from oil, gas, and petrochemical facility locations Presents a facility integrity excellence model, a

holistic approach for oil and gas companies to drive towards integrity assurance unit monitoring, creating a failure-free environment Identifies and addresses failure of facility processes and equipment before the onset of performance degradation, keeping equipment maintenance costs low and reliability high

Asset Maintenance Management in Industry

A Comprehensive Guide to Strategies, Practices and Benchmarking *Springer Nature*

This book introduces readers to essential strategies, practices, and benchmarking for asset maintenance in operations intensive industries. Drawing on a case study from the oil and gas sector, it offers a methodology and practical solutions to help maintenance practitioners select and formulate an asset maintenance strategy, and to establish best maintenance practices at an organizational level using the frameworks developed here. It is intended for industry practitioners, young maintenance professionals, and students of engineering management who aspire to a career in operations intensive industries.

Maintenance Leadership 101 - Tips and Tools

New to maintenance supervision or management? Wondering where to start or what road map to follow? Maybe you are a maintenance veteran. This book provides direction in most areas of maintenance and reliability for an industrial manufacturing facility for the young or old. The concepts presented can be extended to any industry that uses equipment and maintain their building and grounds. Prepare to read twenty-five years of experience summed up for a concise set of tools and many tips as a jump start toward maintenance excellence. Thirty-plus proven tools are provided to aid your journey that are easily adaptable to any maintenance organization. Sometimes the human capital element gets lost in the day-to-day fighting fires. The proven leadership tips presented will produce results if adapted. Just raising the level of attention of the workers will produce results and solidify the team that accomplishes the maintenance on the shop floor or out in the field. Expect to realize improvements in your process.

Maintenance Management of Wind Turbines *MDPI*

"Maintenance Management of Wind Turbines" considers the main concepts and the state-of-the-art, as well as advances and case studies on this topic. Maintenance is a critical variable in industry in order to reach competitiveness. It is the most important variable, together with operations, in the wind energy industry. Therefore, the correct management of corrective, predictive and preventive politics in any wind turbine is required. The content also considers original research works that focus on content that is complementary to other sub-disciplines, such as economics, finance, marketing, decision and risk analysis, engineering, etc., in the maintenance management of wind turbines. This book focuses on real case studies. These case studies concern topics such as failure detection and diagnosis, fault trees and subdisciplines (e.g., FMECA, FMEA, etc.) Most of them link these topics with financial, schedule, resources, downtimes, etc., in order to increase productivity, profitability, maintainability, reliability, safety, availability, and reduce costs and downtime, etc., in a wind

turbine. Advances in mathematics, models, computational techniques, dynamic analysis, etc., are employed in analytics in maintenance management in this book. Finally, the book considers computational techniques, dynamic analysis, probabilistic methods, and mathematical optimization techniques that are expertly blended to support the analysis of multi-criteria decision-making problems with defined constraints and requirements.

Corrosion Inspection and Monitoring *John Wiley & Sons*

The comprehensive reference on modern techniques and methods for monitoring and inspecting corrosion Strategic corrosion inspection and monitoring can improve asset management and life cycle assessment and optimize operational budgets. Advances in computer technologies and electronics have led to very efficient tools for monitoring and inspecting corrosion, including impedance spectroscopy, electrical field signatures, acoustic emissions, and radiographs. This up-to-date reference explains both intrusive and non-intrusive methods of measuring corrosion rates. It covers: The impact of corrosion on the economy and the safe operation of systems in diverse operational environments The various forms of corrosion, with a focus on the detectability of corrosion damage in the real world The principles of risk-based inspection and various risk assessment methodologies (HAZOP, FMECA, FTA, and ETA), with examples from industry The monitoring of microbiologically induced corrosion (MIC), cathodic protection (CP) systems, and atmospheric corrosion Non-destructive evaluation (NDE) techniques, including visual, ultrasonic, radiographic, electromagnetic, and thermographic inspection Roadmaps used by various industries and organizations for carrying out complex inspection and monitoring schedules Complete with graphics and illustrations, this is the definitive reference for professionals involved in the maintenance of industrial systems and structures, from oil exploration to chemical plants and infrastructures; consultants; property managers; and civil, materials, and construction engineers.

Certified Professional Maintenance Manager Review Pack *Lulu.com*

Data Driven Energy Centered Maintenance *CRC Press*

Over recent years, many new technologies have been introduced to drive the digital transformation in the building maintenance industry. The current trend in digital evolution involves data-driven decision making which opens new opportunities for an energy centered maintenance model. Artificial Intelligence and Machine Learning are helping the maintenance team to get to the next level of maintenance intelligence to provide real-time early warning of abnormal equipment performance. This edition follows the same methodology as the First. It provides detailed descriptions of the latest technologies associated with Artificial Intelligence and Machine Learning which enable data-driven decision-making processes about the equipment's operation and maintenance. Technical topics discussed in the book include: Different Maintenance Types and The Need for Energy Centered Maintenance The Centered Maintenance Model Energy Centered Maintenance Process Measures of Equipment and Maintenance Efficiency and Effectiveness Data-Driven Energy Centered Maintenance Model: Digitally Enabled Energy Centered Maintenance Tasks Artificial Intelligence and Machine Learning in Energy Centered Maintenance Model Capabilities and

Analytics Rules Building Management System Schematics The book contains a detailed description of the digital transformation process of most of the maintenance inspection tasks as they move away from being manually triggered. The book is aimed at building operators as well as those building automation companies who are working continuously to digitalize building operation and maintenance procedures. The benefits are reductions in the equipment failure rate, improvements in equipment reliability, increases in equipment efficiency and extended equipment lifespan.

Innovations in Mechatronics Engineering *Springer Nature*

This book covers a variety of topics in the field of mechatronics engineering, with a special focus on innovative control and automation concepts for applications in a wide range of field, including industrial production, medicine and rehabilitation, education and transport. Based on a set of papers presented at the 1st International Conference "Innovation in Engineering", ICIE, held in Guimarães, Portugal, on June 28-30, 2021, the chapters report on cutting-edge control algorithms for mobile robots and robot manipulators, innovative industrial monitoring strategies for industrial process, improved production systems for smart manufacturing, and discusses important issues related to user experience, training and education, as well as national developments in the field of mechatronics. This volume, which belongs to a three-volume set, provides engineering researchers and professionals with a timely overview and extensive information on trends and technologies behind the future developments of mechatronics systems in the era of Industry 4.0.

Advanced Models and Tools for Effective Decision Making Under Uncertainty and Risk Contexts *IGI Global*

Business industries depend on advanced models and tools that provide an optimal and objective decision-making process, ultimately guaranteeing improved competitiveness, reducing risk, and eliminating uncertainty. Thanks in part to the digital era of the modern world, reducing these conditions has become much more manageable. Advanced Models and Tools for Effective Decision Making Under Uncertainty and Risk Contexts provides research exploring the theoretical and practical aspects of effective decision making based not only on mathematical techniques, but also on those technological tools that are available nowadays in the Fourth Industrial Revolution. Featuring coverage on a broad range of topics such as industrial informatics, knowledge management, and production planning, this book is ideally designed for decision makers, researchers, engineers, academicians, and students.

Complex System Maintenance Handbook *Springer Science & Business Media*

This utterly comprehensive work is thought to be the first to integrate the literature on the physics of the failure of complex systems such as hospitals, banks and transport networks. It has chapters on particular aspects of maintenance written by internationally-renowned researchers and practitioners. This book will interest maintenance engineers and managers in industry as well as researchers and graduate students in maintenance, industrial engineering and applied mathematics.

Energy and water development appropriations for 2003

hearings before a subcommittee of the Committee on Appropriations, House of Representatives, One Hundred Seventh Congress, second session

Energy and Water Development Appropriations for 2002

Hearings Before a Subcommittee of the Committee on Appropriations, House of Representatives, One Hundred Seventh Congress, First Session

Energy and Water Development Appropriations for 2001: Secretary of Energy

Energy and Water Development Appropriations for 2002: Secretary of Energy ... pt. 6. Atomic Energy Defense activities ... pt. 7. Testimony of members of Congress and other interested individual and organizations

107-1 Hearing: Energy And Water Development Appropriations For 2002, Part 5, 2001

Energy and Water Development Appropriations for 2001

Hearings Before a Subcommittee of the Committee on Appropriations, House of Representatives, One Hundred Sixth Congress, Second Session

107-2 Hearings: Energy and Water Development Appropriations For 2003, Part 5, March 6, 2002, *

Secretary of Energy; Science, renewable energy, and nuclear energy

Optimum Decision Making in Asset Management *IGI Global*

Asset management is becoming increasingly important to an organization's strategy, given its effects on cost, production, and quality. No matter the sector, important decisions are made based on techniques and theories that are thought to optimize results; asset management models and techniques could help maximize effectiveness while reducing risk. Optimum Decision Making in Asset Management posits that effective decision making can be augmented by asset management based on mathematical techniques and models. Resolving the problems associated with minimizing uncertainty, this publication outlines a myriad of methodologies, procedures, case studies, and management tools that can help any organization achieve world-class maintenance. This book is ideal for managers, manufacturing engineers, programmers, academics, and advanced management students.

Advances in Production Management Systems. Artificial Intelligence for Sustainable and Resilient Production Systems

IFIP WG 5.7 International Conference, APMS 2021, Nantes, France, September 5-9, 2021, Proceedings, Part V *Springer Nature*

The five-volume set IFIP AICT 630, 631, 632, 633, and 634 constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2021, held in Nantes, France, in September 2021.* The 378 papers presented were carefully reviewed and selected from 529 submissions. They discuss artificial intelligence techniques, decision aid and new and renewed paradigms for sustainable and resilient production systems at four-wall factory and value chain levels. The papers are organized in the following topical sections: Part I: artificial intelligence based optimization techniques for demand-driven manufacturing; hybrid approaches for production planning and scheduling; intelligent systems for manufacturing planning and control in the industry 4.0; learning and robust decision support systems for agile manufacturing environments; low-code and model-driven engineering for production system; meta-heuristics and optimization techniques for energy-oriented manufacturing systems; metaheuristics for production systems; modern analytics and new AI-based smart techniques for replenishment and production planning under uncertainty; system identification for manufacturing control applications; and the future of lean thinking and practice Part II: digital transformation of SME manufacturers: the crucial role of standard; digital transformations towards supply chain resiliency; engineering of smart-product-service-systems of the future; lean and Six Sigma in services healthcare; new trends and challenges in reconfigurable, flexible or agile production system; production management in food supply chains; and sustainability in production planning and lot-sizing Part III: autonomous robots in delivery logistics; digital transformation approaches in production management; finance-driven supply chain; gastronomic service system design; modern scheduling and applications in industry 4.0; recent advances in sustainable manufacturing; regular session: green production and circularity concepts; regular session: improvement models and methods for green and innovative systems; regular session: supply chain and routing management; regular session: robotics and human aspects; regular session: classification and data management methods; smart supply chain and production in society 5.0 era; and supply chain risk management under coronavirus Part IV: AI for resilience in global supply chain networks in the context of pandemic disruptions; blockchain in the operations and supply chain management; data-based services as key enablers for smart products, manufacturing and assembly; data-driven methods for supply chain optimization; digital twins based on systems engineering and semantic modeling; digital twins in companies first developments and future challenges; human-centered artificial intelligence in smart manufacturing for the operator 4.0; operations management in engineer-to-order manufacturing; product and asset life cycle management for smart and sustainable manufacturing systems; robotics technologies for control, smart manufacturing and logistics; serious games analytics: improving games and learning support; smart and sustainable production and supply chains; smart methods and techniques for sustainable supply chain management; the new digital lean manufacturing paradigm; and the role of emerging technologies in disaster relief operations: lessons from COVID-19 Part V: data-driven platforms and applications in production and logistics: digital twins and AI for sustainability; regular session: new approaches for routing problem solving; regular session: improvement of design and operation of manufacturing systems; regular session: crossdock and transportation issues; regular session:

maintenance improvement and lifecycle management; regular session: additive manufacturing and mass customization; regular session: frameworks and conceptual modelling for systems and services efficiency; regular session: optimization of production and transportation systems; regular session: optimization of supply chain agility and reconfigurability; regular session: advanced

modelling approaches; regular session: simulation and optimization of systems performances; regular session: AI-based approaches for quality and performance improvement of production systems; and regular session: risk and performance management of supply chains *The conference was held online.