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Advances in Social and Occupational Ergonomics
Knowledge and Skill Chains in Engineering and
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Industrial robots and cobots
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Fundamentals of Software Culture
Product Lifecycle Management (Volume 4): The
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Virtual Environments '98
Business Process Management Workshops
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CODY DONAVAN

Green Supply Chain

CRC Press

This book covers supply chain and logistics, production and manufacturing systems as well as human factors. Topics such as applications to procurements from suppliers, suppliers developments and relationships with suppliers are reported. The techniques and tools applied to production processes, such as, machinery maintenance and quick changeover, are described in detail. The book also presents human factors as the main component in the industrial engineering field, reporting some successful teamwork organizations for improvements and applied ergonomics, among others.

Industry 4.0 for SMEs Springer

This book comprises select proceedings of the International Conference on Emerging Trends in Mechanical Engineering (ICETME 2018). The book covers various topics of mechanical engineering like computational fluid dynamics, heat transfer, machine dynamics, tribology, and composite materials. In addition, relevant studies in the allied fields of manufacturing, industrial and production engineering are also covered. The applications of latest tools and techniques in the context of mechanical engineering problems are discussed in this book. The contents of this book will be useful for students,

researchers as well as industry professionals.

Emerging Trends in Mechanical

Engineering Springer

Science & Business

Media

This book constitutes revised papers from the twelve

International

Workshops held at the

17th International

Conference on

Business Process

Management, BPM

2019, in Vienna,

Austria, in September

2019: The third

International Workshop

on Artificial Intelligence

for Business Process

Management (AI4BPM)

The third International

Workshop on Business

Processes Meet

Internet-of-Things (BP-

Meet-IoT) The 15th

International Workshop

on Business Process

Intelligence (BPI) The

first International

Workshop on Business

Process Management

in the era of Digital

Innovation and

Transformation

(BPMInDIT) The 12th

International Workshop

on Social and Human

Aspects of Business

Process Management

(BPMS2) The 7th

International Workshop

on Declarative,

Decision and Hybrid

approaches to

processes (DEC2H) The

second International

Workshop on Methods

for Interpretation of

Industrial Event Logs

(MIEL) The first

International Workshop

on Process

Management in Digital

Production (PM-DiPro)

The second

International Workshop

on Process-Oriented

Data Science for

Healthcare (PODS4H)

The fourth

International Workshop

on Process Querying (PQ) The second International Workshop on Security and Privacy-enhanced Business Process Management (SPBP) The first International Workshop on the Value and Quality of Enterprise Modelling (VEnMo) Each of the workshops discussed research still in progress and focused on aspects of business process management, either a particular technical aspect or a particular application domain. These proceedings present the work that was discussed during the workshops.

Advances in Social and Occupational Ergonomics Springer Science & Business Media
Based on the competition of

international production networks, the pressure to - create the efficiency of production systems has increased significantly. In addition, the number of technical components in many products and as a consequence also the requirements for corresponding assembly processes and logistics processes increases. International logistics networks require corresponding logistics concepts. These requirements can be managed only by using appropriate Digital Factory tools in the context of a product lifecycle management environment, which allows reusing data, supports an effective cooperation between different departments, and provides up-to-

date and relevant data to every user who needs it. Simulating the complete material flow including all relevant production, storage, and transport activities is recognized as a key component of the Digital Factory in the industry and as of today widely used and accepted. Cutting inventory and throughput time by 20–60% and enhancing the productivity of existing production facilities by 15–20% can be achieved in real-life projects.

Knowledge and Skill Chains in Engineering and Manufacturing

Springer

This book explores the impact of industry 4.0 on agricultural supply chains, exploring how changes such as increased digitisation,

automation, and the digital value chain, will impact food production globally. At a time when increasing population and environmental degradation puts stress on food supply chains, traditional farming operation models struggle to maintain both sustainability and transparency. Industry 4.0 could lead to digitalised ways of farming and agricultural production processes that will transform the traditional operating and process models to digital, data-intensive methods focusing on analytics and decision-making practices. This book aims to provide the reader with an understanding of the concept of Agriculture 4.0 in relation to supply chain

management. Different applications of Agricultural 4.0 supply chains are discussed in relation to their respective advantages and disadvantages. Dr. Stella Despoudi is Lecturer in Operations and Supply Chain Management at Aston University and Adjunct Lecturer in Supply Chain Management at the University of Western Macedonia, Greece. Dr. Konstantina Spanaki is a Lecturer in Information Management at Loughborough University, UK. Dr. Oscar Rodríguez-Espíndola is a Senior lecturer in Operations and Supply Chain Management at Aston University and a member of the Aston CRISIS centre, UK. Dr. Efraxia Zamani is a

Senior Lecturer of Information Systems at the University of Sheffield, UK. Ergonomics Springer Science & Business Media
Build complex embedded systems faster and with lower costs by: * Knowing when and how much simulation testing is appropriate * Applying engineering methods to simulation design and development * Using the best tools available to develop simulations. * *Va Industrial robots and cobots* Springer
An Introduction to Modern Vehicle Design starts from basic principles and builds up analysis procedures for all major aspects of vehicle and component design. Subjects of current interest to the motor industry - such

as failure prevention, designing with modern material, ergonomics, and control systems - are covered in detail, with a final chapter discussing future trends in automotive design. Extensive use of illustrations, examples, and case studies provides the reader with a thorough understanding of design issues and analysis methods. Information and Software Technologies Springer

The integration of eco-friendly aspects, tools and solutions into a conventional supply chain leads to environmentally friendly global processes in the manufacturing and service industry. This book offers a selection of chapters that explain the impact of

green supply chain solutions on value-making chains. The aim of this book is to help students at all levels as well as managers and researchers to understand and appreciate the concept, design and implementation of green supply chain solutions in the Industry 4.0 era.

Digital Twins in Industry Springer Nature

This edited volume focuses on research conducted in the area of ergonomic design. Chapters are extensions of works presented at the International Conference on Management of Ergonomic Design, Industrial Safety and Healthcare Systems. The book addresses

the need to have the knowledge of ergonomics, human factors engineering and safety engineering in order to make worksystems ergonomically designed, operationally safe and productive. It is a useful resource for students, researchers, industrial professionals, and design engineers.

Digital Human Nature

This book reports on cutting-edge research on social and occupational ergonomics, presenting innovative contributions to the optimization of sociotechnical management systems related to organizational, policy, and logistical issues. It discusses timely topics

related to communication, crew resource management, work design, participatory design, as well as teamwork, community ergonomics, cooperative work, and warning systems, and explores new work paradigms, organizational cultures, virtual organizations, telework, and quality management. The book also describes pioneering infrastructures implemented for different purposes such as urban, health, and enterprise, and examines the changing role of automated systems, offering innovative solutions that address the needs of particular populations. Based on the AHFE 2018 International

Conference on Social and Occupational Ergonomics, held in Orlando, Florida, USA on July 21–25, 2018, the book provides readers with a comprehensive overview of the current challenges in both organizational and occupational ergonomics, highlighting key connections between them and underlining the importance of emotional factors in influencing human performance.

Engineering Education 4.0

Springer Nature
This Open Access proceedings present a good overview of the current research landscape of industrial robots. The objective of MHI Colloquium is a successful networking at academic and

management level. Thereby the colloquium is focussing on a high level academic exchange to distribute the obtained research results, determine synergetic effects and trends, connect the actors personally and in conclusion strengthen the research field as well as the MHI community. Additionally there is the possibility to become acquainted with the organizing institute. Primary audience are members of the scientific association for assembly, handling and industrial robots (WG MHI). *Agricultural Supply Chains and Industry 4.0* Springer
With the unprecedented increase in the world's population, the need

for different food processing techniques becomes extremely important. And with the increase in awareness of and demand for food quality, processed products with improved quality and better taste that are safe are also important aspects that need to be addressed. In this volume, experts examine the use of different technologies for food processing. They look at technology with ways to preserve nutrients, eliminate anti-nutrients and toxins, add vitamins and minerals, reduce waste, and increase productivity. Topics include, among others: • applications of ohmic heating • cold plasma in food processing • the role of biotechnology in the

production of fermented foods and beverages • the use of modification of food proteins using gamma irradiation • edible coatings to restrain migration of moisture, oxygen, and carbon dioxide • natural colorants, as opposed to synthetic coloring, which may have toxic effects • hurdle technology in the food industry • the unrecognized potential of agro-industrial waste

Manufacturing Simulation with Plant Simulation and Simtalk Springer

This open access book explores the concept of Industry 4.0, which presents a considerable challenge for the production and service sectors. While digitization initiatives are usually integrated into the central

corporate strategy of larger companies, smaller firms often have problems putting Industry 4.0 paradigms into practice. Small and medium-sized enterprises (SMEs) possess neither the human nor financial resources to systematically investigate the potential and risks of introducing Industry 4.0. Addressing this obstacle, the international team of authors focuses on the development of smart manufacturing concepts, logistics solutions and managerial models specifically for SMEs. Aiming to provide methodological frameworks and pilot solutions for SMEs during their digital transformation, this innovative and timely

book will be of great use to scholars researching technology management, digitization and small business, as well as practitioners within manufacturing companies.

Simulation Engineering

Michał Gurgul

This book presents some twenty case studies, showing how companies in different industry sectors and of different sizes make advances in Product Lifecycle Management (PLM). Like the author's previous volumes, this book provides a valuable resource for those wishing to learn about PLM and how to implement and apply it in their companies. Helping readers to · learn about implementing and benefiting from PLM; · learn about good PLM

solutions and best practice; · improve their planning and decision-making abilities; · benefit from the lessons learned by the companies featured in the case studies; · proceed faster and further with PLM the book presents effective PLM solutions and best practices. At the same time, the case studies included demonstrate how different companies implement and benefit from PLM. Each case study is addressed in a separate chapter and details a different situation, enabling readers to put themselves in the situation and think through different actions and decisions. A valuable resource for PLM team managers and employees in engineering and

manufacturing companies, the book is also of interest to researchers and students in industrial engineering fields.

Technologies in Food Processing

Elsevier

This book provides a complete overview of production systems and describes the best approaches to analyze their performance. Written by experts in the field, this work also presents numerous techniques that can be used to describe, model, and optimize the performance of various types of production lines. The book is intended for researchers, production managers, and graduate students in industrial, mechanical, and systems engineering.

Future Access

Enablers for Ubiquitous and Intelligent Infrastructures CRC Press

As the first book about software culture, this book discusses software culture from three perspectives including historical perspective, the classification of software and software applications. This book takes credit from the view of science and technology development. It analyzed scientific innovations and the social areas promoted following the growth of technology. And according to the fact that information helps to build human cultural form, we proposed the concept and researching method of software culture. The aim of writing this book

is to strengthen the connection between software and culture, to replenish knowledge system in the subject of software engineering, and to establish a new area of study that is the culture of software.

Teaching and Learning in a Digital World
Springer

The two volumes IFIP AICT 414 and 415 constitute the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2013, held in University Park, PA, USA, in September 2013. The 133 revised full papers were carefully reviewed and selected for inclusion in the two volumes. They are organized in 4 parts: sustainable production, sustainable

supply chains, sustainable services, and ICT and emerging technologies.

Applied Simulation

Ubiquity Press
Simulation modelling involves the development of models that imitate real-world operations, and statistical analysis of their performance with a view to improving efficiency and effectiveness. This non-technical textbook is focused towards the needs of business, engineering and computer science students, and concentrates on discrete event simulations as it is used in operations management. Stewart Robinson of Warwick Business School offers guidance through the key stages in a simulation project in

terms of both the technical requirements and the project management issues surrounding it. Readers will emerge able to develop appropriate valid conceptual models, perform simulation experiments, analyse the results and draw insightful conclusions.

Facilities Design

Prentice Hall
This book presents the select proceedings of the International Conference on Functional Material, Manufacturing and Performances (ICFMMP) 2019. The book covers broad aspects of several topics involved in the metrology and measurement of engineering surfaces and their implementation in automotive, bio-

manufacturing, chemicals, electronics, energy, construction materials, and other engineering applications. The contents focus on cutting-edge instruments, methods and standards in the field of metrology and mechanical properties of advanced materials. Given the scope of the topics, this book can be useful for students, researchers and professionals interested in the measurement of surfaces, and the

applications thereof.

Implementing

Industry 4.0 John

Wiley & Sons

Delineating the proper design, layout, and location of facilities, this book strikes a healthy balance between theory and practice. It provides an understanding of the practical aspects of implementing preliminary designs development through analytical models. The third edition of a bestseller, it features updated multimedia tools, new software, an

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