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OCONNELL**

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*Computing  
and Artificial  
Intelligence,  
Special  
Sessions, 15th  
International  
Conference*

Springer  
A complete  
introduction to  
the field,  
Ergonomics:  
Foundational  
Principles,

Applications and Technologies discusses scientific principles, research, applications, and emerging trends in technology. Covering the foundational principles and major topics in physical ergonomics, the book contains the necessary components of a quality ergonomics course,

**INFORMATION AND SOFTWARE TECHNOLOGIES**

Michał Gurgul

This book constitutes the refereed proceedings of the 24th International Conference on Information and Software Technologies, ICIST 2018, held in Vilnius, Lithuania, in October 2018. The 48 papers presented were carefully reviewed and selected from 124 submissions. The papers are organized in topical sections on information systems; business intelligence for information and software

systems; software engineering; and information technology applications. *Dynamics in Logistics* Elsevier The integration of eco-friendly aspects, tools and solutions into a conventional supply chain leads to environmental ly 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.

John Wiley & Sons  
In April 1991 BusinessWeek ran a cover story entitled, "We Can't Work This

Way"  
Thing, about the difficulties many people have with consumer products, such as cell phones and VCRs. More than 15 years later, the situation is much the same—but at a very different level of scale. The disconnect between people and technology has had society-wide consequences in the large-scale system accidents from major human error, such as those at Three Mile

Island and in Chernobyl. To prevent both the individually annoying and nationally significant consequences, human capabilities and needs must be considered early and throughout system design and development. One challenge for such consideration has been providing the background and data needed for the seamless integration of humans into the design process from

various perspectives: human factors engineering, manpower, personnel, training, safety and health, and, in the military, habitability and survivability. This collection of development activities has come to be called human-system integration (HSI). Human-System Integration in the System Development Process reviews in detail more than 20 categories of HSI methods to provide invaluable guidance and information for system designers and developers. *Industry 4.0 for SMEs* Springer Nature 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. [Advances in Metrology and Measurement of Engineering Surfaces](#) Springer Science & Business Media  
This book constitutes the refereed proceedings of the First International Conference on Digital Human Modeling, DHM 2007,

held in Beijing, China in July 2007. The papers thoroughly cover the thematic area of digital human modeling, addressing the following major topics: shape and movement modeling and anthropometry, building and applying virtual humans, medical and rehabilitation applications, as well as industrial and ergonomic applications. *Production Ergonomics* Springer  
Ten years

after Virtual Environment research started with NASA's VIEW project, these techniques are now exploited in industry to speed up product development cycles, to ensure higher product quality, and to encourage early training on and for new products. Especially the automotive industry, but also the oil and gas industry are driving the use of these techniques in their works. The papers in

this volume reflect all the different tracks of the workshop: reviewed technical papers as research contributions, summaries on panels of VE applications in the automotive, the medical, the telecommunication and the geoscience field, a panel discussing VEs as the future workspace, invited papers from experts reporting from VEs for entertainment industry, for media arts, for supercomputi

ng and productivity enhancement. Short industrial case studies, reporting very briefly from ongoing industrial activities complete this state of the art snapshot. Industrial robots and cobots Springer Nature 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. An Introduction to Modern Vehicle Design John Wiley & Sons  
The aim of this book is to present qualitative aspects of logistics operations and supply chain management which help to implement the sustainable policy principles in the companies and public

sector's institutions. Authors in individual chapters address the issues related to reverse network configuration, forward and reverse supply chain integration, CO2 reduction in transportation, improvement of the production operations and management of the recovery activities. Some best practices from different countries and industries are presented.



This book will be valuable to both academics and practitioners wishing to deepen their knowledge in the field of logistics operations and management with regard to sustainability issues.

Operations Management

Prentice Hall  
In the modern world, highly repetitive and tiresome tasks are being delegated to machines. The demand for industrial robots is growing not only because

of the need to improve production efficiency and the quality of the end products, but also due to rising employment costs and a shortage of skilled professionals. The industrial robot market is projected to grow by 16% year-on-year in the immediate future. The industry's progressing automation is increasing the demand for specialists who can operate robots. If you would like to

join this sought-after and well-paid professional group, it's time to learn how to operate and program robots using modern methods. This book provides all the information you will need to enter the industry without spending money on training or looking for someone willing to introduce you to the world of robotics. You will learn about all aspects of programming

and implementing robots in a company. The book consists of four parts: general introduction to robotics for non-technical people; part two describes industry robotisation; part three depicts the principles and methods of programming robots; the final part touches upon the safety of industrial robots and cobots. Are you a student of a technical faculty, or even a manager of a plant who

would like to robotise production? If you are interested in this subject, you won't find a better book! Learning Factories CRC Press This book constitutes the proceedings of the 7th International Conference on Decision Support Systems Technologies, ICDSST 2021, held during May 26-28, 2021. The conference was planned to take place in Loughborough , UK, and

changed to an online format due to the COVID-19 pandemic. The EWG-DSS series of International Conference on Decision Support System Technology (ICDSST) is planned to consolidate the tradition of annual events organized by the EWG-DSS in offering a platform for European and international DSS communities, comprising the academic and industrial sectors, to present state-

of-the-art DSS research and developments, to discuss current challenges that surround decision-making processes, to exchange ideas about realistic and innovative solutions, and to co-develop potential business opportunities. The main aim of this year's conference is to investigate the role DSS and related technologies can play in mitigating the impact of pandemics and post-crisis recovery. The

10 papers presented in this volume were carefully reviewed and selected from 44 submissions. They were organized in two topical sections named: multiple criteria approaches and advances in decision support systems' technologies and methods. Virtual Learning Springer 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.

## **SIMULATION ENGINEERING**

**G**  
Springer  
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 pr-

esses  
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, st-  
age, and  
transport  
activities is  
recognized as  
a key  
component of  
the Digital F-  
actory 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 p-  
duction  
facilities by

15-20% can  
be achieved in  
real-life  
projects.  
**Industry 4.0**  
Springer  
Production  
ergonomics -  
the science  
and practice  
of designing  
industrial  
workplaces to  
optimize  
human well-  
being and  
system  
performance -  
is a complex  
challenge for  
a designer.  
Humans are a  
valuable and  
flexible  
resource in  
any system of  
creation, and  
as long as  
they stay  
healthy, alert  
and  
motivated,

they perform well and also become more competent over time, which increases their value as a resource. However, if a system designer is not mindful or aware of the many threats to health and system performance that may emerge, the end result may include inefficiency, productivity losses, low working morale, injuries and sick-leave. To help budding system designers and

production engineers tackle these design challenges holistically, this book offers a multi-faceted orientation in the prerequisites for healthy and effective human work. We will cover physical, cognitive and organizational aspects of ergonomics, and provide both the individual human perspective and that of groups and populations, ending up with a look at global

challenges that require workplaces to become more socially and economically sustainable. This book is written to give you a warm welcome to the subject, and to provide a solid foundation for improving industrial workplaces to attract and retain healthy and productive staff in the long run.

### **Applied Simulation**

Ubiquity Press  
This book presents the outcomes of the 15th International

<p>Conference on Distributed Computing and Artificial Intelligence, held in Toledo (Spain) from 20th to 22nd June 2018 and hosted by the UCLM, and which brought together researchers and developers from industry, education and the academic world to report on the latest scientific research, technical advances and methodologies . Highlighting multi-disciplinary and transversal</p>	<p>aspects, the book focuses on the conferences Special Sessions, including Advances in Demand Response and Renewable Energy Sources in Smart Grids (ADRESS); AI-Driven Methods for Multimodal Networks and Processes Modeling (AIMPM); Social Modelling of Ambient Intelligence in Large Facilities (SMALF); Communications, Electronics and Signal</p>	<p>Processing (CESP); Complexity in Natural and Formal Languages (CNFL); and Web and Social Media Mining (WASMM). <i>Intelligent Systems in Production Engineering and Maintenance</i> Springer “Simulation-based Case Studies in Logistics” presents an intensive learning course on the application of simulation as a decision support tool to tackle complex</p>
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logistic problems. The book describes and illustrates different approaches to developing simulation models at the right abstraction level to be used efficiently by engineers when dealing with strategic, tactical or operational decisions in logistic systems. 11 simulation-based case studies in logistics and supply chain management are discussed, based on the results of

applied research, covering application areas such as production logistics, warehousing, transportation, material flow management, and hospital logistics. “Simulation-based Case Studies in Logistics” is an essential text for postgraduate engineering students and researchers working in the area of logistics modeling and simulation.

## **NONLINEAR CONTROL**

## **SYSTEMS**

Springer Science & Business Media  
 This book presents the state of the art of learning factories. It outlines the motivations, historic background, and the didactic foundations of learning factories. Definitions of the term learning factory and a corresponding morphological model are provided as well as a detailed overview of existing



learning factory approaches in industry and academia, showing the broad range of different applications and varying contents. Learning factory best-practice examples are presented in detailed and structured manner. The state of the art of learning factories curricula design and their use to enhance learning and research as well as potentials and limitations are presented.

Further research priorities and innovative learning factory concepts to overcome current barriers are offered. While today numerous learning factories have been built in industry (big automotive companies, pharma companies, etc.) and academia in the last decades, a comprehensive handbook for the scientific community and practitioners

alike is still missing. The book addresses therefore both researchers in production-related areas, that want to conduct industry-relevant research and education, as well as managers and engineers in industry, who are searching for an effective way to train their employees. In addition to this, the learning factory concept is also regarded as an innovative learning concept in the

field of didactics. *Augmented Reality, Virtual Reality, and Computer Graphics* CRC Press  
 This open access book highlights the interdisciplinary aspects of logistics research. Featuring empirical, methodological, and practice-oriented articles, it addresses the modelling, planning, optimization and control of processes. Chiefly focusing on supply chains, logistics

networks, production systems, and systems and facilities for material flows, the respective contributions combine research on classical supply chain management, digitalized business processes, production engineering, electrical engineering, computer science and mathematical optimization. To celebrate 25 years of interdisciplinary and collaborative research conducted at the Bremen

Research Cluster for Dynamics in Logistics (LogDynamics), in this book hand-picked experts currently or formerly affiliated with the Cluster provide retrospectives, present cutting-edge research, and outline future research directions. *Implementing Industry 4.0 in SMEs* CRC Press  
 The REV conference aims to discuss the fundamentals, applications and experiences in

remote engineering, virtual instrumentation and related new technologies, as well as new concepts for education on these topics, including emerging technologies in learning, MOOCs & MOOLs, Open Resources, and STEM pre-university education. In the last 10 years, remote solutions based on Internet technology have been increasingly deployed in numerous areas of

research, science, industry, medicine and education. With the new focus on cyber-physical systems, Industry 4.0, Internet of Things and the digital transformation in industry, economy and education, the core topics of the REV conference have become indispensable elements of a future digitized society. REV 2018, which was held at the University of Applied Sciences in Duesseldorf

from 21-23 March 2018, addressed these topics as well as state-of-the-art and future trends. [Advances in Social and Occupational Ergonomics](#) Springer This book presents recent research on interactive collaborative learning. We are currently witnessing a significant transformation in the development of education and especially post-secondary education. To face these

challenges, higher education has to find innovative ways to quickly respond to these new needs. On the one hand, there is a pressure by the new situation in regard to the COVID pandemic. On the other hand, the methods and organizational forms of teaching and learning at higher educational institutions have changed rapidly in recent months.

Scientifically based statements as well as excellent experiences (best practice) are absolutely necessary. These were the aims connected with the 24th International Conference on Interactive Collaborative Learning (ICL2021), which was held online by Technische Universität Dresden, Germany, on 22-24 September 2021. Since its beginning in 1998, this conference is devoted to

new approaches in learning with a focus on collaborative learning in Higher Education. Nowadays, the ICL conferences are a forum of the exchange of relevant trends and research results as well as the presentation of practical experiences in Learning and Engineering Pedagogy. In this way, we try to bridge the gap between 'pure' scientific research and the everyday

work of educators. This book contains papers in the fields of Teaching Best Practices Research in Engineering Pedagogy Engineering Pedagogy Education Entrepreneurs	hip in Engineering Education Project-Based Learning Virtual and Augmented Learning Immersive Learning in Healthcare and Medical Education. Interested readership	includes policymakers, academics, educators, researchers in pedagogy and learning theory, schoolteacher s, learning industry, further and continuing education lecturers, etc
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