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Humankind has always striven to catch a glimpse of the future. Egyptian priests, Babylonian astrologers, Greek oracles and medieval magicians stared at the sky and tried to foresee the coming catastrophes, relying on certain distributions of the stars.

Contemporary fantasists construct models of the future through the pages of their novels and astonish readers with unbelievable pictures of a technocratic society where the very human personality has transformed under the influence of technological advance. However, most of all the previous attempts to foresee the future has remained in the framework of banal superstition or ordinary creative writing. At the same time, the principal question does not cease to be of current interest. Is scientific forecasting of the near and distant future possible? The authors of this book are convinced that it is. On the basis of rigorous methodology, mathematicians, physicians, philosophers and historians demonstrate how the world will look in coming decades and centuries and try to find out if the future can be determined. Along with general philosophical analysis, mathematical modeling is used in order to give the reader a clear and objective vision of the future. The book will be useful for everyone who takes care of his own

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destiny and the destiny of the next generations. This book describes the cognitive and interpersonal effects of group model building, and presents empirical research on what group model building achieves and how. Further, it proposes an integrated causal mechanism for the effects on participants. There have been multiple previous attempts at explaining the effects of group model building on participants, and this book integrates these various theories for the first time. The causal mechanisms described here suggest a variety of design elements that should be included in group model building practice. For example, practitioners typically try to reduce complexity for clients, to make the process feel more accessible. In contrast, the findings presented here suggest that the very act of muddling through complexity increases participants' affective commitment to the group and the decisions made. The book also describes implications for theory and practice. System dynamics has traditionally been interested in using technical modeling processes to make policy recommendations. Group model building demonstrates that these same techniques also have implications for group decision making as a method for negotiating agreement. The book argues for the value of group model building as a mediating or negotiating tool, rather than merely a positivist tool for technical problems.

In 1791, Treasury Secretary Alexander Hamilton

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wrote that "not only the wealth, but the independence and security of a country, appear to be materially connected with the prosperity of manufacturers." Centuries later, U.S. manufacturing jobs continue to be outsourced at an all-too-rapid pace. Examining the current U.S. manufacturing environment, including the unsustainable trade imbalance, *Intelligent Manufacturing: Reviving U.S. Manufacturing Including Lessons Learned from Delphi Packard Electric and General Motors* outlines concrete suggestions that can help to stop the outflow of manufacturing jobs and prosperity from our shores. The book explains why most companies have not reaped the benefits promised from the implementation of the multitude of methodologies that have inundated manufacturers and outlines the steps companies can take to reverse this trend. The author's 30-year background in engineering and manufacturing, in both national and international assignments, puts him in a unique position to supply insights on foreign competition that few are able to provide. In addition to discussing the tools and concepts with a proven history of success, the book also elaborates on what doesn't work. It presents an insider's perspective of what went horribly wrong within Delphi and GM so other manufacturing companies can avoid making the same mistakes. The book describes how to effectively set up a manufacturing system and accurately measure and

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control direct labor. It shares easy-to-implement tools that the author developed and implemented with proven track records for improving performance. Such tools include computer programs that can provide a competitive advantage, a proven way to reduce total process cycle time, and a scientific way to establish proper lot sizes. Instead of presenting a lot of theory, the author provides ideas based on common sense and practical experience. The concepts and tools outlined in the text are simple and straightforward, yet powerful enough to help any conscientious company improve its competitive position.

A social robot is a robot that interacts and communicates with humans or other autonomous physical agents by following social behaviors and rules attached to its role. We seem to accept the use of robots that perform dull, dirty, and dangerous jobs. But how far do we want to go with the automation of care for children and the elderly, or the killin

This 4th edition of Introduction to Nursing Informatics is designed for use by practicing nurses and students in undergraduate programs of study. It presents the fundamental concepts of Nursing Informatics, and includes a number of contributions from leading experts who have practiced in the field of informatics over a number of years. The information is presented and integrated in a purposeful manner to encourage you to explore key

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concepts, starting with the fundamental concepts and then progressing on to core concepts and practice applications in the later sections. Briefly, the word CARE is presented as an acronym for Connected Health, Administration, Research and Education and the book is organised in sections with these sub themes. Critically, the content is linked with case-based examples to contextualize the theory presented.

The Delphi Technique in Nursing and Health Research is a practical guide to using the Delphi methodology for students and researchers in nursing and health. It adopts a logical step-by-step approach, introducing the researcher to the Delphi, outlining its development, analysing key characteristics and parameters for its successful use and exploring its applications in nursing and health. The book addresses issues of methodology, design, framing the research question, sampling, instrumentation, methodological rigour, reliability and validity, and methods of data analysis. The Delphi Technique in Nursing and Health Research enables the reader to be aware of the limitations of the technique and possible solutions, to design a Delphi questionnaire for each of the different rounds of a study, to consider different approaches to the technique in relation to a study, to analyse the data from each round of a Delphi study, and to understand the importance of feedback between

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rounds. Key Features A practical guide to facilitate use of the Delphi technique Provides the reader with the necessary information to participate in and conduct Delphi studies Examines different types of Delphi, including the e-Delphi, and modifications made to the technique Includes examples of real empirical investigations, brief case scenarios and key learning points for each chapter Explores the role of the Delphi researcher Explores ethical issues and issues of anonymity, use of experts and controlled feedback

Still the Best Delphi Resource--Now Fully Updated and Expanded Whether you're new to Delphi or just making the move from an earlier version, Mastering Delphi 7 is the one resource you can't do without. Practical, tutorial-based coverage helps you master essential techniques in database, client-server, and Internet programming. And the insights of renowned authority Marco Cantù give you the necessary knowledge to take advantage of what's new to Delphi 7--particularly its support for .NET. Coverage includes:

- * Creating visual web applications with IntraWeb
- * Writing sockets-based applications with Indy
- * Creating data-aware controls and custom dataset components
- * Creating database applications using ClientDataSet and dbExpress
- * Building client-server applications using InterBase
- * Interfacing with Microsoft's ADO
- * Programming for a multi-tiered application architecture
- * Taking

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advantage of Delphi's support for COM, OLE Automation, and COM+ * Taking advantage of Delphi's XML and SOAP support * Implementing Internet protocols in your Delphi app * Creating UML class diagrams using ModelMaker * Visually preparing reports using RAVE * Using the Delphi language to create your first .NET programs

As governments and policy makers take advantage of information and communication technologies, leaders must understand how to navigate the ever-shifting landscape of modern technologies in order to be most effective in enacting change and leading their constituents. The Handbook of Research on Advanced ICT Integration for Governance and Policy Modeling builds on the available literature, research, and recent advances in e-governance to explore advanced methods and applications of digital tools in government. This collection of the latest research in the field presents an essential reference for academics, researchers, and advanced-level students, as well as government leaders, policy makers, and experts in international relations.

This open access book proposes a novel approach to Artificial Intelligence (AI) ethics. AI offers many advantages: better and faster medical diagnoses, improved business processes and efficiency, and the automation of boring work. But undesirable and ethically problematic consequences are possible too: biases and discrimination, breaches of privacy and security, and societal distortions such as unemployment, economic exploitation and weakened democratic processes. There is even a prospect, ultimately, of super-intelligent machines replacing humans. The key question, then, is: how can we benefit from AI while addressing its ethical problems? This book presents an innovative answer to the question by

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presenting a different perspective on AI and its ethical consequences. Instead of looking at individual AI techniques, applications or ethical issues, we can understand AI as a system of ecosystems, consisting of numerous interdependent technologies, applications and stakeholders. Developing this idea, the book explores how AI ecosystems can be shaped to foster human flourishing. Drawing on rich empirical insights and detailed conceptual analysis, it suggests practical measures to ensure that AI is used to make the world a better place.

For more than 100 years, Henry's Clinical Diagnosis and Management by Laboratory Methods has been recognized as the premier text in clinical laboratory medicine, widely used by both clinical pathologists and laboratory technicians. Leading experts in each testing discipline clearly explain procedures and how they are used both to formulate clinical diagnoses and to plan patient medical care and long-term management. Employing a multidisciplinary approach, it provides cutting-edge coverage of automation, informatics, molecular diagnostics, proteomics, laboratory management, and quality control, emphasizing new testing methodologies throughout. Remains the most comprehensive and authoritative text on every aspect of the clinical laboratory and the scientific foundation and clinical application of today's complete range of laboratory tests. Updates include current hot topics and advances in clinical laboratory practices, including new and extended applications to diagnosis and management. New content covers next generation mass spectroscopy (MS), coagulation testing, next generation sequencing (NGS), transfusion medicine, genetics and cell-free DNA, therapeutic antibodies targeted to tumors, and new regulations such as ICD-10 coding for billing and reimbursement. Emphasizes the clinical interpretation of laboratory data to assist the clinician in patient management. Organizes chapters by organ system

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for quick access, and highlights information with full-color illustrations, tables, and diagrams. Provides guidance on error detection, correction, and prevention, as well as cost-effective test selection. Includes a chapter on Toxicology and Therapeutic Drug Monitoring that discusses the necessity of testing for therapeutic drugs that are more frequently being abused by users.

The book presents a representative selection of all publications published between 01/2009 and 06/2010 in various books, journals and conference proceedings by the researchers of the institute cluster: IMA - Institute of Information Management in Mechanical Engineering ZLW - Center for Learning and Knowledge Management IfU - Institute for Management Cybernetics, Faculty of Mechanical Engineering, RWTH Aachen University The contributions address the cluster's five core research fields: suitable processes for knowledge- and technology-intensive organizations, next-generation teaching and learning concepts for universities and the economy, cognitive IT-supported processes for heterogeneous and cooperative systems, target group-adapted user models for innovation and technology development processes, semantic networks and ontologies for complex value chains and virtual environments Innovative fields of application such as cognitive systems, autonomous truck convoys, telemedicine, ontology engineering, knowledge and information management, learning models and technologies, organizational development and management cybernetics are presented. The contributions show the unique potential of the broad and interdisciplinary research approach of the ZLW/IMA and the IfU.

Innovations Through Information Technology aims to provide a collection of unique perspectives on the issues surrounding the management of information technology in organizations

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around the world and the ways in which these issues are addressed. This valuable book is a compilation of features including the latest research in the area of IT utilization and management, in addition to being a valuable source in support of teaching and research agendas.

FLINS, an acronym introduced in 1994 and originally for Fuzzy Logic and Intelligent Technologies in Nuclear Science, is now extended into a well-established international research forum to advance the foundations and applications of computational intelligence for applied research in general and for complex engineering and decision support systems. The principal mission of FLINS is bridging the gap between machine intelligence and real complex systems via joint research between universities and international research institutions, encouraging interdisciplinary research and bringing multidiscipline researchers together. FLINS 2020 is the fourteenth in a series of conferences on computational intelligence systems.

This book outlines the process of sustainable product design and development. It presents design guidelines that help prolong the life of a product and minimize its environmental impact. These guidelines specifically enable product design for end-of-life (EoL) objectives such as reuse, recycling and remanufacturing. Sustainable Product Design and Development also presents mathematical models that will help the designer determine the cost of designing sustainable products. This cost can be computed early during the design stage of a product. Sustainable Product Design and Development presents different ways and means by which a product can address all three pillars of sustainability—environmental conservation, social sustainability, and economic sustainability. Various case studies are incorporated in different chapters. Case studies on designing products for assembly, disassembly and

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remanufacturing have been presented in their respective chapters. The book also provides an overview of global environmental legislation to help the reader grasp the importance of waste management and sustainable product design. This book is aimed at professionals, engineering students, environmental scientists, and those in the business environment.

Societies survive in their environment and compete with each other depending on the technology they develop. Economic, military and political power are directly related to the available technology, while access to technology is key to the well-being of our societies at the individual, community and national level. The Robotics Divide analyzes how robotics will shape our societies in the twenty-first century; a time when industrial and service robotics, particularly for military and aerospace purposes, will become an essential technology. The book, written by experts in the field, focuses on the main technological trends in the field of robotics, and the impact that robotics will have on different facets of social life. By doing so, the authors aim to open the “black box” of a technology which, like any other, is designed, implemented and evaluated according to the economic and cultural patterns of a cosmopolitan society, as well as its relations of power. The Robotics Divide explores future developments in robotics technology and discusses the model of technological development and the implementation of robotics in this competitive market economy. Then the authors examine to what extent it is possible to determine the characteristic features of the robotic divide, namely in what ways the robotic divide differs from the digital divide, and how a model to integrate this technology can be developed without reproducing patterns of inequality and power that have characterized the advent of previous technologies. These issues - inequality, robotics and power - are of concern to

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robotics and advanced automation engineers, social scientists, economists and science policy experts alike. Still the Best Delphi Resource A Fully Revised Version of the Book That Won the DelphiInformant Readers Choice Award If you're looking to capitalize on the powerful capabilities of the latest release of Delphi, Mastering Delphi 6 is the one resource you can't do without. Practical, tutorial-based coverage helps you develop key skills, solve tough problems, and build and implement sophisticated functionality in your database, client/server, and Internet applications. The special insights of Delphi expert Marco Cantu you an extra advantage as you complete successful projects and progress towards Delphi mastery. Coverage includes: Getting to know the new run-time library (RTL) Learning to use the VCL and CLX visual libraries Developing custom components Creating data-aware controls and custom datasets Mastering database programming with BDE and dbExpress Mastering client/server programming with InterBase Interfacing with Microsoft's ADO using the dbGo component set Taking advantage of Delphi's support for COM, OLE Automation, and COM+ Programming for a multitiered application architecture Taking advantage of Delphi's support for XML and SOAP technologies Building practical, powerful Web applications Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

This proceedings volume highlights the latest research presented at the 7th International Conference on Research on National Brand & Private Label Marketing (NB&PL2020, Barcelona, Spain). The topics covered include: retailing, private label portfolio and assortment management, marketing of premium store brands, using national brands to exclude (delist) and include, optimal assortment size, consumer store patronage, etc. Several contributions also focus on private label pricing and promotion, especially on the

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relative pricing of standard and premium private labels, and with regard to the national brands in the assortment. Further questions addressed here include: Should store brands be promoted? If so, what types of promotion should be used? How can private label penetration, especially premium private labels, best be dealt with? Are dual branding and coupons viable options?

This title provides a thorough overview of the issues high-tech marketers must address, and provides a balance between conceptual discussions and examples; small and big business; products and services; and consumer and business-to-business marketing contexts.

Automation, Communication and Cybernetics in Science and Engineering 2009/2010 Springer Science & Business Media
This book constitutes the proceedings of the 17th International Conference on Product-Focused Software Process Improvement, PROFES 2016, held in Trondheim, Norway, in November 2016. The 24 revised full papers presented together with 21 short papers, 1 keynote, 3 invited papers, 5 workshop papers, 2 doctoral symposium papers, and 6 tutorials were carefully reviewed and selected from 82 submissions. The papers are organized in topical sections on Early Phases in Software Engineering; Organizational Models; Architecture; Methods and Tools; Verification and Validation; Process Improvement; Speed and Agility in System Engineering; Requirements and Quality; Process and Repository Mining; Business Value and Benefits; Emerging Research Topics; and Future of Computing.

Intelligent systems are required to facilitate the use of information provided by the internet and other computer based technologies. This book describes the state-of-the-art in Intelligent Automation and Systems Engineering. Topics covered include Intelligent decision making, Automation, Robotics, Expert systems, Fuzzy systems, Knowledge-based

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systems, Knowledge extraction, Large database management, Data analysis tools, Computational biology, Optimization algorithms, Experimental designs, Complex system identification, Computational modeling, Systems simulation, Decision modeling, and industrial applications.

The field of library and information science is experiencing significant and continued transformation as a result of advancements in digital technology. Adapting to new technologies is crucial for librarians and other information professionals, but there exists a particularly acute gap in technology adoption among developing countries. *Library and Information Science in Developing Countries: Contemporary Issues* explores the relationship between global technology development and the impact of new technologies on library practice, library education, and information science. Book chapters and case studies in this work provide insight to and support for practitioners and executives concerned with the management of knowledge, information, and organizational development in different types of work environments and learning communities.

A large international conference in Intelligent Automation and Computer Engineering was held in Hong Kong, March 18-20, 2009, under the auspices of the International MultiConference of Engineers and Computer Scientists (IMECS 2009). The IMECS is organized by the International Association of Engineers (IAENG). *Intelligent Automation and Computer Engineering* contains 37 revised and extended research articles written by prominent researchers participating in the conference. Topics covered include artificial

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intelligence, decision supporting systems, automated planning, automation systems, control engineering, systems identification, modelling and simulation, communication systems, signal processing, and industrial applications. Intelligent Automation and Computer Engineering offers the state of the art of tremendous advances in intelligent automation and computer engineering and also serves as an excellent reference text for researchers and graduate students, working on intelligent automation and computer engineering.

Fundamental Theories of Mega Infrastructure Construction Management: Theoretical Considerations from Chinese Practices is a collection of decades of research and applications of managing megaprojects using theories of complex systems and management sciences. It presents basic (classical) theory of megaproject management and is a showcase of more than 30 years of research of complex system and management sciences on the theory of megaproject management resulting from the integrating of theory and practice of megaprojects. The theory and models have undergone rigorous systematic testing during the management and implementation of megaprojects in China. Megaprojects are huge undertakings, often in infrastructure (bridges, tunnels, airports, etc.) that involve huge levels of investment, often take years to complete, and typically run into delays, cost overruns, and any number of unforeseen problems. Over the last few decades, no one country has undertaken more of these projects than China, and this book presents the

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fundamental theories underlying the practice of Mega Infrastructure Construction Management as practiced in China. Individual chapters provide a basic definition of Mega Infrastructure Construction and its management; an overview of the theories behind it; the Formation Path; basic concepts; fundamental principles; scientific problems; the Method System of Meta-synthesis; specialized methods in research; and intelligent management of Mega Infrastructure Construction. Although the theoretical construction management problems in this book are derived from construction practices in China, they can be applied universally and extended for great fundamental significance.

In this research, the stress is placed upon the choosing of sugar analyzing smart medical devices for diabetics' patients. The main objective is to present the complications of the problem, raising interest among specialists in the healthcare industry and assessing smart medical devices under different evaluation criteria. The problem is formulated as a multi criteria decision type with seven alternatives and seven criteria, and then edited as a multi criteria decision model with seven alternatives and seven criteria.

Information granules are fundamental conceptual entities facilitating perception of complex phenomena and contributing to the enhancement of human centricity in intelligent systems. The formal frameworks of information granules and information granulation comprise fuzzy sets, interval analysis, probability, rough sets, and shadowed sets, to name only a few representatives. Among current developments of Granular Computing,

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interesting options concern information granules of higher order and of higher type. The higher order information granularity is concerned with an effective formation of information granules over the space being originally constructed by information granules of lower order. This construct is directly associated with the concept of hierarchy of systems composed of successive processing layers characterized by the increasing levels of abstraction. This idea of layered, hierarchical realization of models of complex systems has gained a significant level of visibility in fuzzy modeling with the well-established concept of hierarchical fuzzy models where one strives to achieve a sound tradeoff between accuracy and a level of detail captured by the model and its level of interpretability. Higher type information granules emerge when the information granules themselves cannot be fully characterized in a purely numerical fashion but instead it becomes convenient to exploit their realization in the form of other types of information granules such as type-2 fuzzy sets, interval-valued fuzzy sets, or probabilistic fuzzy sets. Higher order and higher type of information granules constitute the focus of the studies on Granular Computing presented in this study. The book elaborates on sound methodologies of Granular Computing, algorithmic pursuits and an array of diverse applications and case studies in environmental studies, option price forecasting, and power engineering.

Finally, an operations management book to get excited about. Operations Management: A Supply Chain Process Approach exposes students to the exciting and

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ever-changing world of operations management through dynamic writing, application, and cutting-edge examples that will keep students interested and instructors inspired! Author Dr. Joel Wisner understands that today's students will be entering a highly competitive global marketplace where two things are crucial: a solid knowledge of operations management and an understanding of the importance for organizations to integrate their operations and supply chain processes. With this in mind, Wisner not only provides a clear and comprehensive introduction to operations management, but also gives attention to the important processes involved in linking firms' operations in a supply chain environment.

Curland, a developer for Microsoft, demonstrates techniques programmers can use to write reusable Visual Basic (VB) code, and how to leverage the close relationships between VB, COM, and OLE automation to extend VB's capabilities. The book alternates between a low-level look at the data underlying array, object, and string types and practical applications of these structures. The CD-ROM contains source code sample that enable techniques without external DLLs. Annotation copyrighted by Book News, Inc., Portland, OR

Applied Computing in Medicine and Health is a comprehensive presentation of on-going investigations into current applied computing challenges and advances, with a focus on a particular class of applications, primarily artificial intelligence methods and techniques in medicine and health. Applied computing is the use of practical computer science knowledge to enable use of the latest technology and techniques in a variety of different fields ranging from

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business to scientific research. One of the most important and relevant areas in applied computing is the use of artificial intelligence (AI) in health and medicine. Artificial intelligence in health and medicine (AIHM) is assuming the challenge of creating and distributing tools that can support medical doctors and specialists in new endeavors. The material included covers a wide variety of interdisciplinary perspectives concerning the theory and practice of applied computing in medicine, human biology, and health care. Particular attention is given to AI-based clinical decision-making, medical knowledge engineering, knowledge-based systems in medical education and research, intelligent medical information systems, intelligent databases, intelligent devices and instruments, medical AI tools, reasoning and metareasoning in medicine, and methodological, philosophical, ethical, and intelligent medical data analysis. Discusses applications of artificial intelligence in medical data analysis and classifications Provides an overview of mobile health and telemedicine with specific examples and case studies Explains how behavioral intervention technologies use smart phones to support a patient centered approach Covers the design and implementation of medical decision support systems in clinical practice using an applied case study approach

Build fast, scalable, and high performing applications with Delphi Key Features Build efficient and concurrent applications in Delphi with focused examples Identify performance bottlenecks and apply the correct algorithm to increase the performance of applications. Delve into parallel programming and memory management to optimize your code Book Description Delphi is a cross-platform Integrated Development Environment (IDE) that supports rapid application development for Microsoft Windows, Apple Mac OS X, Google Android, iOS, and now Linux with RAD Studio

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10.2. This book will be your guide to build efficient high performance applications with Delphi. The book begins by explaining how to find performance bottlenecks and apply the correct algorithm to fix them. It will teach you how to improve your algorithms before taking you through parallel programming. You'll then explore various tools to build highly concurrent applications. After that, you'll delve into improving the performance of your code and master cross-platform RTL improvements. Finally, we'll go through memory management with Delphi and you'll see how to leverage several external libraries to write better performing programs. By the end of the book, you'll have the knowledge to create high performance applications with Delphi. What you will learn Find performance bottlenecks and easily mitigate them Discover different approaches to fix algorithms Understand parallel programming and work with various tools included with Delphi Master the RTL for code optimization Explore memory managers and their implementation Leverage external libraries to write better performing programs Who this book is for This book is for Delphi developers who would like to build high performance applications with Delphi. Prior knowledge of Delphi is assumed.

"This book explores the recent advancements in the areas of lean production, management, and the system and layout design for manufacturing environments, capturing the building blocks of lean transformation on a shop floor level"--

This book presents the latest research on computational approaches to learning. It includes high-quality peer-reviewed papers from the "Intelligent and Interactive Computing Conference (IIC 2018)" organized by the Universiti Teknikal Malaysia, Melaka. It uses empirical studies, theoretical analysis, and comparisons with psychological phenomena to show how learning methods can be employed to solve important application problems. The book also describes

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ongoing research in various research labs, universities and institutions, which may lead to the development of marketable products.

Sustainability issues have gained more importance in contemporary globalization, pushing decision makers to find a systematic mathematical approach to conduct analyses of this real-world problem. The growing complexity in modern social-economics or engineering environments or systems has forced researchers to solve complicated problems by using multi-criteria decision-making (MCDM) approaches. However, traditional MCDM research mainly focuses on reaching the highest economic value or efficiency, and issues related to sustainability are still not closely explored.

Advanced Multi-Criteria Decision Making for Addressing Complex Sustainability Issues discusses and addresses the challenges in the implementation of decision-making models in the context of green and sustainable engineering, criteria identification, quantification, comparison, selection, and analysis in the context of manufacturing, supply chain, transportation, and energy sectors. All academic communities in the areas of management, economics, business sciences, mechanical, and manufacturing technologies are able to use, apply, and implement the models presented in this book. It is intended for researchers, manufacturers, engineers, managers, industry professionals, academicians, and students.

Examining legal and philosophical problems for a new social contract that is fair to workers.

This book constitutes revised papers from the eleven International Workshops held at the 15th International Conference on Business Process Management, BPM 2017, in Barcelona, Spain, in September 2017: BPAI 2017 – 1st International Workshop on Business Process Innovation with Artificial Intelligence; BPI 2017 – 13th International Workshop

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on Business Process Intelligence; BP-Meet-IoT 2017 – 1st International Workshop on Ubiquitous Business Processes Meeting Internet-of-Things; BPMS2 2017 – 10th Workshop on Social and Human Aspects of Business Process Management; ? CBPM 2017 – 1st International Workshop on Cognitive Business Process Management; CCABPM 2017 – 1st International Workshop on Cross-cutting Aspects of Business Process Modeling; DeHMiMoP 2017 – 5th International Workshop on Declarative/Decision/Hybrid Mining & Modeling for Business Processes; QD-PA 2017 – 1st International Workshop on Quality Data for Process Analytics; REBPM 2017 – 3rd International Workshop on Interrelations between Requirements Engineering and Business Process Management; SPBP 2017 – 1st Workshop on Security and Privacy-enhanced Business Process Management; TAProViz-PQ-IWPE 2017 – Joint International BPM 2017 Workshops on Theory and Application of Visualizations and Human-centric Aspects in Processes (TAProViz'17), Process Querying (PQ'17) and Process Engineering (IWPE17). The 44 full and 11 short papers presented in this volume were carefully reviewed and selected from 99 submissions.

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