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This book by In-Tech publishing helps the reader understand the power of informed decision making by covering a broad range of DSS (Decision Support Systems) applications in the fields of medical,

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environmental, transport and business. The expertise of the chapter writers spans an equally extensive spectrum of researchers from around the globe including universities in Canada, Mexico, Brazil and the United States, to institutes and universities in Italy,

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Germany, Poland, France, United Kingdom, Romania, Turkey and Ireland to as far east as Malaysia and Singapore and as far north as Finland. Decision Support Systems are not a new technology but they have evolved and developed with the ever demanding necessity to analyse

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a large number of options for decision makers (DM) for specific situations, where there is an increasing level of uncertainty about the problem at hand and where there is a high impact relative to the correct decisions to be made. DSS's offer decision makers a more stable

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solution to solving the semi-structured and unstructured problem. This is exactly what the reader will see in this book.

Companies today routinely utilize computer models to help make decisions. These models take many forms, from simple spreadsheets to

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sophisticated computer simulations. The chief underlying reason for constructing a model is to assess the impact of a decision on business performance. Based on that assessment, model users will make recommendations and take actions. The tacit assumption is that the

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model captures the relevant factors at a sufficient level of detail to make accurate projections. The validity of the model thus depends on a host of judgments that the model builder makes in constructing the model—some transparent, others implicit. These judgments are what

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make building a computer model more of an art than a science. This book is about constructing and using computer models to help decision makers in the business world make more informed decisions. It is intended to provide useful case studies for individuals who are

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interested in building effective decision models—ones that will get used to drive important business decisions. The goal is to demonstrate how to build effective models quickly and inexpensively, using software that is widely available and often free. It is a practical guide, informed

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by the author's experience building such models for an array of businesses in diverse industries. Efficient assembly line design is a problem of considerable industrial importance. Assembly Line Design will be bought by technical personnel working in design, planning and

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production departments in industry as well as managers in industry who want to learn more about concurrent engineering. This book will also be purchased by researchers and postgraduate students in mechanical, manufacturing or micro-engineering.

Energy Efficiency in Manufacturing

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SystemsSpringer Science & Business
Media

Introduction to Transportation

Analysis, Modeling and Simulation

Encyclopedia of Business Analytics
and Optimization

ETFA.

The Art of Computer Modeling for

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Business Analytics
Handbook of Dynamic System
Modeling
Computer Simulation Using Excel
without Programming
In Real Time

*This comprehensive
textbook/reference provides an in-*

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depth overview of the key aspects of transportation analysis, with an emphasis on modeling real transportation systems and executing the models. Topics and features: presents comprehensive review questions at the end of each chapter, together with detailed case studies,

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useful links, references and suggestions for further reading; supplies a variety of teaching support materials at the book's webpage on Springer.com, including a complete set of lecture slides; examines the classification of models used for multimodal transportation systems, and

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reviews the models and evaluation methods used in transportation planning; explains traffic assignment to road networks, and describes computer simulation integration platforms and their use in the transportation systems sector; provides an overview of transportation

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simulation tools, and discusses the critical issues in the design, development and use of the simulation models.

The age of the real-time supply chain has finally arrived. Thanks to an emerging technology construct--the Internet-based mega-

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portal--companies can now connect instantaneously with suppliers, distributors, manufacturers, customers, and alliance partners around the world. Online access to up-to-the-minute information enables companies to improve communication and project management across the entire supply

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chain, promote collaboration across departments, and enhance customer service and financial operations. The results are stunning; for example, a recent survey reports dramatic increases in revenues and customer retention and decreases in operating costs and product cycle times. Drawing

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from extensive primary research, this book presents detailed examples of how organizations as diverse as Coca-Cola Bottling Company, Dell, and the U.S. Department of Defense are creating information and communication hubs online and reaping the rewards. The authors

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explain the basic technical and organizational infrastructure necessary for launching a mega-portal and how its successful management can have profound impact on every area and function of the extended enterprise--from strategy to logistics, product development to customer

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service. As competition heats up from every direction, the ability to design and manage your supply chain with precision and speed becomes a business imperative. In Real Time offers a practical blueprint for building, implementing, and sustaining supply chains in today's rapidly changing

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environment.

The only complete guide to all aspects and uses of simulation-from the international leaders in the field There has never been a single definitive source of key information on all facets of discrete-event simulation and its applications to major industries. The

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Handbook of Simulation brings together the contributions of leading academics, practitioners, and software developers to offer authoritative coverage of the principles, techniques, and uses of discrete-event simulation. Comprehensive in scope and thorough in approach, the Handbook is the one

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*reference on discrete-event simulation that every industrial engineer, management scientist, computer scientist, operations manager, or operations researcher involved in problem-solving should own, with an in-depth examination of: * Simulation methodology, from experimental*

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*design to data analysis and more **
Recent advances, such as object-
oriented simulation, on-line simulation,
and parallel and distributed simulation
** Applications across a full range of*
*manufacturing and service industries **
Guidelines for successful simulations
and sound simulation project

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*management * Simulation software and
simulation industry vendors*

*Defining Simulation in its broadest
aspect as embodying a certain model
to represent the behavior of a system,
whether that may be an economic or
an engineering one, with which
conducting experiments is attainable.*

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*Such a technique enables the
management*

Assembly Line Design

*Mine Planning and Equipment
Selection 2000*

*Valuation of Investments in People's
Training and Education, Safety and
Health, and Work Productivity*

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*The Balancing of Mixed-Model Hybrid
Assembly Lines with Genetic
Algorithms*

Intelligent Decision Making Systems

Managing the New Supply Chain

*Innovating the Future Through
Manufacturing*

This book is made up of

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selected papers from the Asia Simulation Conference 2007, held in Seoul, Korea, in October of 2007. The 42 revised full papers presented were carefully reviewed and selected from 120 submissions. After the

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conference, the papers went through another round of revision. The papers are organized in topical sections on a host of subjects. These include, among others, sections on numerical simulation, general

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application, and agent-based simulation.

Fundamental Economic Principles, Methods, and Tools for Addressing Human Systems Integration Issues and Tradeoffs Human Systems Integration (HSI) is a new and

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**fundamental integrating
discipline designed to help
move business and
engineering cultures toward
more human-centered
systems. Integrating
consideration of human
abilities, limitations, and**

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preferences into engineering systems yields important cost and performance benefits that otherwise would not have been accomplished. In order for this new discipline to be effective, however, a cultural change—starting with

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organizational leadership—is often necessary. The Economics of Human Systems Integration explains the difficulties underlying valuation of investments in people's training and education, safety and health,

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and work productivity. It provides an overview of how the field of economics addresses these difficulties, focusing on human issues associated with design, development, production, operations, maintenance, and

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sustainment of complex systems. The set of thought leaders recruited as contributors to this volume collectively provides a compelling set of data and principles for assessing the economic value of investing in

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people, not just in general but in specific investment situations. The early chapters provide the contexts for HSI and investment analysis, illustrating the enormous difference context makes in how issues are best framed

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and analyzed. A host of practical methods and tools for investment valuation are then presented. Provided are: A variety of real-world applications of economic analysis ranging from military acquisition and automotive

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investment to healthcare and high-tech investments in general, in both the U.S. and abroad A range of economics-based methods and tools for cost analysis, cost-benefit analysis, and investment analysis, as well as sources of

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data for performing such analyses Differing perspectives on economic decision-making, including a range of private sector points of view, as well as government and regulatory perspectives In addition, five real-world case

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studies illustrate how such valuations have been done and their major impacts on investment decisions. HSI professionals, systems engineers, and finance professionals who address investment analysis will

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appreciate the wide range of methods and real-life applications; senior undergraduates and masters-level graduate students will find this to be an excellent textbook that provides theory and supports practice.

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Optimization models based on a nonlinear systems description often possess multiple local optima. The objective of Global Optimization (GO) is to find the best possible solution of multiextremal problems. This

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volume illustrates the applicability of GO modeling techniques and solution strategies to real-world problems. Coverage extends to a broad range of applications, from agroecosystem management

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to robot design. Proposed solutions encompass a range of practical and viable methods.

In this paper a nearly perfected concept of basic training in the field of "Computer Integrated

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Manufacturing (CIM)" has been explained. With the help of detailed studies conducted in part by the Department of Technology and Education. Department of Mechanical and Industrial Engineering, University of Dortmund the

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necessity of basic training at all levels for employees in Computer Integrated Manufacturing was verified. Then the new requirements for employees were indicated with respect to the "ability to act". Moreover, the didactic

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demands of the concept for basic subject-specific training were clearly stipulated. In summary, this concept has to include the invariant, indispensable, fundamental and exemplary contents and the basic options of CIM work

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organisation which are most important today and in the near future. Then a configuration was presented to meet these demands: the multimedia system of the CIM Learning Factory, subsidised by the EC in the COMETT

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programme. The CIM Learning Factory consists of • a well-operating "model factory", where activities like job management, production control, design, manufacturing, including loading, material transport

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and assembly as well as quality control and warehousing, are flexibly shown in functional models and are controlled by means of cross-linked computers (MPC); during the training the cross-linked computer

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structure is used like a language laboratory; • two different "teachware packages", the first for the target group of designers and decision-makers, the second for skilled workers and plant management.

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**Proceedings of the first
international conference on
information technologies in
the minerals industry via the
Internet, 1-12 December 1997
Proceedings of the 4th
International ISKE
Conference, Hasselt, Belgium,**

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27-28 November 2008
Global Optimization
International IFIP WG 5.7
Conference, APMS 2009,
Bordeaux, France, September
21-23, 2009, Revised Selected
Papers
SME Technical Paper

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**Handbook of Computational
Social Science, Volume 1
Shovel-Truck Systems**

Case studies in time series
analysis/Jenkins.-v.1.

The conference is organized by the
Department of Mining Engineering
and Metallurgy of the National

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University of Athens, Greece and its purpose is to promote technology transfer and identify future courses of action in research and development via the Internet. The topics covered include applications in a wide spectrum of mining related fields: Mineral exploration; Orebody

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modelling; Mine planning and operations; Mine equipment; Rock mechanics; Mine safety and training; Reclamation and environmental issues; Mineral processing. The complete proceedings are published on a CD-ROM with an accompanying book which contains the full texts of

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keynote papers and the abstracts (including full title, author's names and e-mail addresses as well a keyword index) of all papers.

For the last decades, as the computer technology has been developing, the importance of human-computer systems interaction problems was

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growing. This is not only because the computer systems performance characteristics have been improved but also due to the growing number of computer users and of their expectations about general computer systems capabilities as universal tools for human work and life facilitation.

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The early technological problems of man-computer information exchange – which led to a progress in computer programming languages and input/output devices construction – have been step by step dominated by the more general ones of human interaction with-and-through

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computer systems, shortly denoted as H-CSI problems. The interest of scientists and of any sort specialists to the H-CSI problems is very high as it follows from an increasing number of scientific conferences and publications devoted to these topics. The present book contains selected

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papers concerning various aspects of H-CSI. They have been grouped into five Parts: I. General H-CSI problems (7 papers), II. Disabled persons helping and medical H-CSI applications (9 papers), III. Psychological and linguistic H-CSI aspects (9 papers), IV. Robots and

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training systems (8 papers), V.
Various H-CSI applications (11
papers).

This text provides a basic treatment of discrete-event simulation, including the proper collection and analysis of data, the use of analytic techniques, verification and validation of models,

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and designing simulation experiments.
Intelligent Control and Innovative
Computing
Decision Support Systems
Paradigms and Case Studies
1995 INRIA/IEEE Symposium on
Emerging Technologies and Factory
Automation : Proceedings, Paris

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France, October 10-13, 1995

Evolving Toolbox for Complex Project
Management

Logistics Operations and Management
Advances in

*This book provides a
comprehensive overview of
how to strategically*

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manage the movement and storage of products or materials from any point in the manufacturing process to customer fulfillment. Topics covered include important

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*tools for strategic
decision making,
transport, packaging,
warehousing, retailing,
customer services and
future trends. An
introduction to logistics*

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*Provides practical
applications Discusses
trends and new strategies
in major parts of the
logistic industry
Unrivaled coverage of a
broad spectrum of*

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*industrial engineering
concepts and applications
The Handbook of Industrial
Engineering, Third Edition
contains a vast array of
timely and useful
methodologies for*

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achieving increased productivity, quality, and competitiveness and improving the quality of working life in manufacturing and service industries. This

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astoundingly comprehensive resource also provides a cohesive structure to the discipline of industrial engineering with four major classifications: technology; performance

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*improvement management;
management, planning, and
design control; and
decision-making methods.
Completely updated and
expanded to reflect nearly
a decade of important*

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*developments in the field,
this Third Edition
features a wealth of new
information on project
management, supply-chain
management and logistics,
and systems related to*

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*service industries. Other important features of this essential reference include: * More than 1,000 helpful tables, graphs, figures, and formulas * Step-by-step descriptions*

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*of hundreds of problem-solving methodologies * Hundreds of clear, easy-to-follow application examples * Contributions from 176 accomplished international*

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*professionals with diverse
training and affiliations*

** More than 4,000*

*citations for further
reading The Handbook of
Industrial Engineering,
Third Edition is an*

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*immensely useful one-stop
resource for industrial
engineers and technical
support personnel in
corporations of any size;
continuous process and
discrete part*

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*manufacturing industries;
and all types of service
industries, from
healthcare to hospitality,
from retailing to finance.
Of related interest . . .*
HANDBOOK OF HUMAN FACTORS

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*AND ERGONOMICS, Second
Edition Edited by Gavriel
Salvendy (0-471-11690-4)
2,165 pages 60 chapters "A
comprehensive guide that
contains practical
knowledge and technical*

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background on virtually all aspects of physical, cognitive, and social ergonomics. As such, it can be a valuable source of information for any individual or organization

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committed to providing competitive, high-quality products and safe, productive work environments." -John F. Smith Jr., Chairman of the Board, Chief Executive

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*Officer and President,
General Motors Corporation
(From the Foreword)
Attempts to provide a
holistic view of the
changing scenario and
current research trends in*

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manufacturing. This volume can provide the necessary information to all researchers, professionals and beginners alike in introducing innovating manufacturing practices

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*and furthering research on
newer and improved
manufacturing
technologies.*

*Energy consumption is of
great interest to
manufacturing companies.*

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Beyond considering individual processes and machines, the perspective on process chains and factories as a whole holds major potentials for energy efficiency

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improvements. To exploit these potentials, dynamic interactions of different processes as well as auxiliary equipment (e.g. compressed air generation) need to be taken into

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account. In addition, planning and controlling manufacturing systems require balancing technical, economic and environmental objectives. Therefore, an innovative

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and comprehensive methodology – with a generic energy flow-oriented manufacturing simulation environment as a core element – is developed and embedded

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into a step-by-step application cycle. The concept is applied in its entirety to a wide range of case studies such as aluminium die casting, weaving mills, and printed

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circuit board assembly in order to demonstrate the broad applicability and the benefits that can be achieved.

*Implementing Industry 4.0
A Practical Perspective*

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*Human-Computer Systems
Interaction
Modelling, Analysis and
Calculations
Scientific and Engineering
Case Studies
ETFA '95*

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*Backgrounds and
Applications*

**The Handbook of
Computational Social
Science is a comprehensive
reference source for
scholars across multiple**

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disciplines. It outlines key debates in the field, showcasing novel statistical modeling and machine learning methods, and draws from specific case studies to demonstrate the

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opportunities and challenges in CSS approaches. The Handbook is divided into two volumes written by outstanding, internationally renowned scholars in the field. This

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first volume focuses on the scope of computational social science, ethics, and case studies. It covers a range of key issues, including open science, formal modeling, and the

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social and behavioral sciences. This volume explores major debates, introduces digital trace data, reviews the changing survey landscape, and presents novel examples of

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**computational social science
research on sensing social
interaction, social robots,
bots, sentiment,
manipulation, and
extremism in social media.
The volume not only makes**

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major contributions to the consolidation of this growing research field but also encourages growth in new directions. With its broad coverage of perspectives (theoretical,

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**methodological,
computational),
international scope, and
interdisciplinary approach,
this important resource is
integral reading for
advanced undergraduates,**

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**postgraduates, and
researchers engaging with
computational methods
across the social sciences,
as well as those within the
scientific and engineering
sectors.**

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"This comprehensive reference work provides immediate, fingertip access to state-of-the-art technology in nearly 700 self-contained articles written by over 900 international

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authorities. Each article in the Encyclopedia features current developments and trends in computers, software, vendors, and applications...extensive bibliographies of leading

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figures in the field, such as Samuel Alexander, John von Neumann, and Norbert Wiener...and in-depth analysis of future directions."

This book provides a

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**comprehensive analysis of
the exploitation process of
shovel-truck systems using
modelling, analysis and
calculations following
specific procedures:-
analyzing the reliability and**

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**accessibility of shovels-
discussing the functioning of
a truck-repair shop system-
reliability of trucks-
existence of haulers
reserve- repair shop
This book enhances learning**

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about complex project management principles and practices through the introduction and discussion of a portfolio of tools presented as an evolving toolbox. Throughout the

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**book, industry practitioners
examine the toolsets that
are part of the toolbox to
develop a broader
understanding of complex
project management
challenges and the available**

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tools to address them. This approach establishes a dynamic, structured platform for a comprehensive analysis and assessment of the modern, rapidly changing,

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multifaceted business environment to teach the next generation of project managers to successfully cope with the ever increasing complexity of the 21st century.

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**Systems Engineering and
Artificial Intelligence
Qualification for Computer-
Integrated Manufacturing
Principles, Methodology,
Advances, Applications, and
Practice**

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**Computer Integrated
Manufacturing - Proceedings
Of The 3rd International
Conference (In 2 Volumes)
Concepts and Models
Volume 17 - Supplement 2:
Automated Forecasting to**

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**Virtual Data Bases
Asia Simulation Conference
2007, Seoul, Korea, October
10-12, 2007, Proceedings**

Simulation overview;
Evolution of modern
computer simulation;

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Simulation in the real world;
Six symptoms of a sick
simulation; The professional
simulation analyst; Building a
simulation the right way;
Learning a simulation
language; Simple queuing

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systems; Advanced topics;
Applying the process.

A large international
conference on Advances in
Intelligent Control and
Innovative Computing was
held in Hong Kong, March

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March 16-18, 2011, under the auspices of the International MultiConference of Engineers and Computer Scientists (IMECS 2010). The IMECS is organized by the International Association of Engineers

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(IAENG). Intelligent Control and Computer Engineering contains 25 revised and extended research articles written by prominent researchers participating in the conference. Topics

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covered include artificial intelligence, control engineering, decision supporting systems, automated planning, automation systems, systems identification, modelling and

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simulation, communication systems, signal processing, and industrial applications. Intelligent Control and Innovative Computing offers the state of the art of tremendous advances in

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intelligent control and
computer engineering and
also serves as an excellent
reference text for
researchers and graduate
students, working on
intelligent control and

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computer engineering.

The present economic and social environment has given rise to new situations within which companies must operate. As a first example, the globalization of the

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economy and the need for performance has led companies to outsource and then to operate inside networks of enterprises such as supply chains or virtual enterprises. A second

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instance is related to environmental issues. The statement about the impact of industrial activities on the environment has led companies to revise processes, to save energy, to

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optimize transportation.... A last example relates to knowledge. Knowledge is considered today to be one of the main assets of a company. How to capitalize, to manage, to reuse it for the benefit of

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the company is an important current issue. The three examples above have no direct links. However, each of them constitutes a challenge that companies have to face today. This book brings

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together the opinions of several leading researchers from all around the world. Together they try to develop new approaches and find answers to those challenges. Through the individual ch-

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ters of this book, the authors present their understanding of the different challenges, the concepts on which they are working, the approaches they are developing and the tools they propose. The book

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is composed of six parts; each one focuses on a specific theme and is subdivided into subtopics. This book relates research being implemented in three main research areas: secure

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connectivity and intelligent systems, real-time analytics and manufacturing knowledge and virtual manufacturing. Manufacturing SMEs and MNCs want to see how Industry 4.0 is implemented.

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On the other hand, groundbreaking research on this topic is constantly growing. For the aforesaid reason, the Singapore Agency for Science, Technology and Research (A*STAR), has

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created the model factory initiative. In the model factory, manufacturers, technology providers and the broader industry can (i) learn how I4.0 technologies are implemented on real-world

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manufacturing use-cases, (ii) test process improvements enabled by such technologies at the model factory facility, without disrupting their own operations, (iii) co-develop technology solutions and (iv)

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support the adoption of solutions at their everyday industrial operation. The book constitutes a clear base ground not only for inspiration of researchers, but also for companies who will

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want to adopt smart manufacturing approaches coming from Industry 4.0 in their pathway to digitization.

Theory, Case Studies and Ethics

Advances in Production

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Management Systems: New
Challenges, New Approaches
The Model Factory as the
Key Enabler for the Future of
Manufacturing
INFORMS Conference
Program

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Handbook of Simulation

Quo Vadis?

The Economics of Human
Systems Integration

The topic of dynamic models tends to be splintered across various disciplines, making it difficult to uniformly study the

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subject. Moreover, the models have a variety of representations, from traditional mathematical notations to diagrammatic and immersive depictions. Collecting all of these expressions of dynamic models, the Handbook of Dynamic System Modeling explores a panoply of different types of modeling methods available for dynamical

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systems. Featuring an interdisciplinary, balanced approach, the handbook focuses on both generalized dynamic knowledge and specific models. It first introduces the general concepts, representations, and philosophy of dynamic models, followed by a section on modeling methodologies that explains how to portray designed

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models on a computer. After addressing scale, heterogeneity, and composition issues, the book covers specific model types that are often characterized by specific visual- or text-based grammars. It concludes with case studies that employ two well-known commercial packages to construct, simulate, and analyze dynamic

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models. A complete guide to the fundamentals, types, and applications of dynamic models, this handbook shows how systems function and are represented over time and space and illustrates how to select a particular model based on a specific area of interest.

This text looks at mine planning and

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equipment and covers topics such as: design and planning of surface and underground mines; geotechnical stability in surface and underground mines; and mining and the environment.

As the age of Big Data emerges, it becomes necessary to take the five dimensions of Big Data- volume, variety,

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velocity, volatility, and veracity- and focus these dimensions towards one critical emphasis - value. The Encyclopedia of Business Analytics and Optimization confronts the challenges of information retrieval in the age of Big Data by exploring recent advances in the areas of knowledge management, data visualization,

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interdisciplinary communication, and others. Through its critical approach and practical application, this book will be a must-have reference for any professional, leader, analyst, or manager interested in making the most of the knowledge resources at their disposal.

"The Encyclopedia of Microcomputers

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serves as the ideal companion reference to the popular Encyclopedia of Computer Science and Technology. Now in its 10th year of publication, this timely reference work details the broad spectrum of microcomputer technology, including microcomputer history; explains and illustrates the use of microcomputers

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throughout academe, business, government, and society in general; and assesses the future impact of this rapidly changing technology."

Computer Simulation

Computational Foundations and

Multimodal Applications

Encyclopedia of Computer Science and

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Technology

Proceedings

Technology and Operations Management

Case Studies in Time Series Analysis

Encyclopedia of Microcomputers

ISKE2009 is the fourth in a series of

conferences on Intelligent Systems and

Knowledge Engineering. The ISKE2009

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proceedings covers state-of-the-art research and development in various areas of Intelligent Systems and Knowledge Engineering, particularly of Intelligent Decision Making Systems. Sample Chapter(s). Chapter 1: Applications of Intelligent Systems in Transportation Logistics (1,389 KB).

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Contents: Computational Intelligence and Expert Systems; Data Mining and Data Analysis; Intelligent Decision Support Systems; Intelligent Information Processing; Knowledge Representation and Learning.

Volume 1 - Access Methods to Assembly Language and Assemblers

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*Handbook of Industrial Engineering
Mining in the 21st Century*

*The International Journal of Mineral
Resources Engineering*

*Energy Efficiency in Manufacturing
Systems*

Information Technologies in the Minerals

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Industry