**Business Intelligence**


**Features**
- Concise and comprehensive introduction to business intelligence (BI)
- Combines traditional BI technologies with new topics such as business semantics, Big Data analysis, and multicriteria decision making
- Includes recent developments in underlying basic technologies such as machine learning, logic networks, and graph mining
- Contributions jointly written by leading academic researchers and industrial developers, striving for both high relevance and real-world applicability

**Contents**

**Fields of interest**
Business Information Systems; Computer Appl. in Administrative Data Processing; Database Management

**Target groups**
Research

**Discount group**
Professional Non-Medical

**Process Management**

A Multi-disciplinary Guide to Theory, Modeling, and Methodology

Process management affects the functioning of every organization and consequently affects each of us. This book focuses on the multi-disciplinary nature of process management by explaining its theoretical foundations in relation to other areas such as process analysis, knowledge management, and simulation. A crucial linkage between theory and concrete methodology of Tabular Application Development (TAD) is presented as a practical approach consisting of five phases that deal with process identification and modeling, process improvement, development of a process management system and finally - monitoring and maintenance.

**Features**
- Covers the multi-disciplinary nature of process management
- Develops an efficient methodology that supports the work of a process management team
- Provides a step-by-step tutorial to implement the use of the methodology in healthcare and business case studies

**Contents**

**Fields of interest**
Business Information Systems; Organization/Planning; Information Systems Applications (incl. Internet)

**Target groups**
Research

**Discount group**
Professional Non-Medical

**Fundamentals of Space Business and Economics**

This book provides an overview of key topics related to space business and management. Case studies and an integrative section are included to illustrate the fundamental concepts and to build intuition. Key topics in the field, such as risk management and cost management, are covered in detail.

**Feature**
- Provides the basics of space business and economics including risk and cost management

**Contents**

**Fields of interest**
Innovation/Technology Management; Extraterrestrial Physics, Space Sciences; Aerospace Technology and Astronautics

**Target groups**
Research

**Discount group**
Professional Non-Medical
Social Innovation
Solutions for a Sustainable Future

Social Innovation is becoming an increasingly important topic in our global society. Those organizations which are able to develop business solutions to the most urgent social and ecological challenges will be the leading companies of tomorrow. Social Innovation not only creates value for society but will be a key driver for business success. Although the concept of Social Innovation is discussed globally the meaning and its impact on the development of new business strategies is still heavily on debate. This publication has the goal to give a comprehensive overview of different concepts in the very innovative field of Social Innovation, from a managerial as well as from a theoretical and social perspective.

Features
► Academic and business leaders provide a comprehensive understanding of Social Innovation and its relevance to latest management approaches
► Latest managerial and academic insights help to clearly understand the opportunities and challenges related to this unique concept
► Best practices provide insight on how to apply the concept of Social Innovation to daily business decision making

Contents

Fields of interest
Non-Profit Enterprises/Corporate Social Responsibility; Business Strategy/Leadership; Organizational Studies, Economic Sociology

Target groups
Professional/practitioner

Discount group
Professional Non-Medical

Managing Knowledge Workers
Value Assessment, Methods, and Application Tools

This book focuses on understanding the strategic role of the knowledge workers in companies, especially in creating an innovative company. The author presents the Sknowinnov method and a decision-making model for the assessment of the value of strategic knowledge resources in companies. This method and its approach can be used as excellent tools for a quantitative knowledge analysis in an economic viewpoint. The IT tool that is developed for this method offers support in decision making at a strategic level regarding the profitability of any investment in employee qualifications and skills. The tool also connects the selected determinants described in an innovative company with the value of the personnel usefulness function, enabling the assessment of the rationality and effectiveness of knowledge.

Features
► Includes an IT tool to support decision making on profitability of investment in employee qualifications and skills
► Presents the distinction between contemporary qualitative and quantitative methods of evaluating intellectual capital
► Presents the Sknowinnov method to forecast the future value of knowledge worker selection towards increasing innovation capacity

Contents

Fields of interest
Innovation/Technology Management; Human Resource Management; Organization/Planning

Target groups
Professional/practitioner

Discount group
Professional Non-Medical

A Course in In-Memory Data Management
The Inner Mechanics of In-Memory Databases


Fields of interest
Business Information Systems; Database Management; Data Mining and Knowledge Discovery

Target groups
Graduate

Discount group
Professional Non-Medical

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P. Wunderlich, University of Mannheim, Germany

Green Information Systems in the Residential Sector
An Examination of the Determinants of Smart Meter Adoption

Given rising electricity consumption, coupled with finite resources, and a growing awareness surrounding sustainable energy, ICT-enabled electrical networks such as smart grids are increasingly being deployed by energy companies. One aspect of smart grids is smart meter technology (SMT), which are sophisticated digital electrical meters, having the potential to increase energy efficiency in both residential and industrial sectors. However, a challenge to SMT-implementation in residential settings has been its successful adoption by consumers. As many cases in the US, and other parts of the world highlight, such implementation projects have run into resistance from the consumers. Despite these challenges, little research has been conducted on this topic. This study is one of the first that attempts to fill that void by empirically examining the antecedents of SMT adoption amongst potential customers and a group of SMT users.

Features
► Presents latest research on the application of information systems for energy efficiency  
► Includes motivational psychology aspects for better user acceptance  
► Highlights the application of smart meter technology

Contents
Introduction. - Smart Grid. - Theoretical Foundations. - Conceptual Model. - Methodology. - Analysis. - Discussion and Interpretation. - Conclusion.

Fields of interest
Business Information Systems; Information Systems Applications (incl.Internet); Energy Efficiency (incl. Buildings)

Target groups
Research

Discount group
Professional Non-Medical

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