IT Production in the 21st Century

The Road to a Modern IT Factory

IT is currently going through one of its most critical phases of transformation. IT vendors and IT service organizations are revolutionizing their production and service processes, adopting industrial practices. It is only through the consistent transformation into factory-like structures that quality, effectiveness and efficiency can be increased. By integrating professional concepts and methods taken from the context of industrial production, it is possible to meet functional and qualitative requirements from the departments and therefore from the end user. On top of that this new paradigm enables the implementation of optimal processes in the organization. An interdisciplinary team of authors addresses the current challenges for global IT services organizations and describes the process of IT industrialization.

Features

- Presents critical success factors for a global acting IT service organization
- Introduces methods and technologies for the optimization and increase of efficiency in a time of transformation
- Focused for strategically acting professionals

Contents

Part 2: Industrial Reformation.
Part 4: Structural Changes.
Part 5: Innovation Ecosystem.
Part 6: A Route for Industrial IT Production.

Fields of interest

Business Information Systems; Management of Computing and Information Systems; Innovation/Technology Management

Target groups

Professional/practitioner

Product category

Professional book

Due September 2013

2014. XX, 210 p. 73 illus. (Management for Professionals) Hardcover

- € (D) 64.19 | € (A) 65.99 | sFr 80.00
- £ 59.99 | £33.99
ISBN 978-3-642-40218-0

Online Optimization

The objective of ONLINE OPTIMIZATION is to provide a systematic survey of the methodology. From the methodological survey, the book then covers a variety of applications of online optimization methods in the domain of Operations Research and Management Science.

Features

- The scheduling of all sorts of complex transportation systems and optimizing financial decision problems in "real time" are the most obvious examples of Online Optimization.
- ONLINE OPTIMIZATION is the first systematic application of the methods to OR/MS.
- These optimization methods are available to guide quick decisions with limited information.
- Patrick Jaillet is currently Professor and Head of Civil and Environmental Engineering at MIT. He has worked in this area since he was a graduate student in France, and is considered one of the methodologies leading authorities

Contents

Introduction: Uncertainty in optimization.
Online Optimization: An overview.
A-Priori Optimization.
Online Traveling Salesman Problems.
Online Traveling Repairman Problems.
Online Scheduling.
Value of Information in Online Optimization.

Fields of interest

Operations Research/Decision Theory; Operations Research, Management Science; Optimization

Target groups

Professional/practitioner

Product category

Monograph

Due January 2014


- € (D) 78.27 | € (A) 80.47 | sFr 158.00
- £ 73.15 | £86.50

Due October 2013

2014. IV, 116 p. 35 illus. in color. (Management for Professionals) Hardcover

- € (D) 53.49 | € (A) 54.99 | sFr 67.00
- £ 49.99 | £44.99
ISBN 978-3-642-40373-6

Bank Management and Control

Strategy, Capital and Risk Management

Strategic planning, including the required quantitative methods, is an essential part of bank management and control. In this book, risk and yield are treated comprehensively and seamlessly. And a thorough introduction to the advanced methods of risk management for all sectors of banking is discussed. In addition, directly applicable concepts and data such as macroeconomic scenarios for strategic planning and stress testing as well as detailed scenarios for operational risk and advanced concepts for credit risk are presented in straightforward language.

Features

- Provides a comprehensive view on Basel III, advanced methods, capital optimization
- Explains in detail advanced methods within risk management
- Describes macroeconomic scenarios for implementation

Contents

Outline.
Bank Management and Steering.
Banks in their Regulatory and Economic Environment.
Risk Modeling and Capital.
Issuer Risk.
Country Risk/Issuer Risk.
Systematic Risk.
Historical Data.

Fields of interest

Finance/Investment/Banking; Quantitative Finance; Statistics for Business/Economics/Mathematical Finance/Insurance

Target groups

Professional/practitioner

Product category

Professional book
Y. L. Zhang, University of Wollongong, Wollongong, Australia

**Collaboration in the Australian and Chinese Mobile Telecommunication Markets**

A major objective of this book is to identify the key determinants of successful inter-firm collaborations in the telecommunications industry in Australia and China, utilizing both qualitative and quantitative research methods as complementary methodologies. The findings will provide essential information and suggestions for businesses, researchers and policy makers and shed light on how to concretely improve the performance of business collaborations.

**Features**
- Offers first-hand qualitative and quantitative data on the Chinese and Australian telecommunications industries
- Identifies the models for successful business collaboration in Australia and China
- Presents a cross-disciplinary study in economics, management and computer science
- Reviews over 800 papers and books on business collaboration
- Provides exclusive information and suggestions for business owners, policy makers and researchers

**Contents**
Introduction.
- Definitions and theories of collaboration.
- Literature review.
- Methodology.
- Telecommunications and inter-firm collaborations.
- A case study on collaboration in the Chinese mobile telecommunication market.
- A case study on collaboration in the Australian mobile telecommunication market.
- A quantitative study of collaboration.
- Conclusions and recommendations.

**Fields of interest**
Management/Business for Professionals; Market Research; Cultural Studies

**Target groups**
Professional/practitioner

**Product category**
Monograph

Due October 2013

2014. XX, 300 p. 51 illus. in color. Hardcover
- € (D) 139,09 | € (A) 142,99 | sFr 173,50
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