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### Construction Management

[John Wiley & Sons](#) Revised edition of: **Construction management / Daniel W. Halpin, Bolivar A. Senior. 2011.**

### Financial Management and Accounting Fundamentals for Construction

[John Wiley & Sons](#) **TECHNOLOGY/ENGINEERING/CIVIL SUCCESSFUL FINANCIAL MANAGEMENT IN THE CONSTRUCTION INDUSTRY BEGINS WITH THIS HANDS-ON GUIDE** While construction professionals are skilled in the technical side of their work, they often find the financial management aspect of the business daunting. Financial Management and Accounting Fundamentals for Construction will help you better understand and navigate the financial decisions that are part of every construction project. This book is a compact summary of the basic financial skills that a construction professional must have to be successful in the management of a construction company and its projects. Its topics address many of the questions that any construction administrator will face, such as: How to organize and use a company's financial reports What amount of cash must be made available to the contractor to complete a project Why the early payment of supplier invoices can enhance profitability How to quantify the time value of money in financial decisions What tax amount is owed by a company and how it impacts the bottom line How to control project costs What financial sources are available to a construction contractor for capital expansion In this text, you will learn about accounting fundamentals, project-related financial matters, and company level financial issues—three factors that are key to your career success. An ideal reference for students of construction management and engineering, as well as professionals who need a quick refresher when dealing with cost control analysis and other financial issues, this text also offers: Easy-to-understand coverage of financial concepts specific to the construction industry, including business taxation, project control, engineering economy, and financial forecasting Numerous worked examples, plus end-of-chapter review questions and exercises Helpful appendices that present the structure of a typical chart of accounts, the flow of transactions through a construction accounting system, and tables required for computing interest and the time value of money

### Construction Management

[John Wiley & Sons](#) The construction professional has to be a “jack of all trades, and master of all.” This text covers a wide range of subjects, reflecting the breadth of knowledge needed to understand the dynamics of this large and complex industry. This edition introduces extended coverage in the scheduling area to address more advanced and practice oriented procedures such as Start to Start, Finish to Finish, and similar relationship between activities in a network schedule.

### Sustainability Management Strategies and Impact in Developing Countries

[Emerald Group Publishing](#) Strategies and Impact in Developing Countries emphasizes the research of sustainability management and strategies in developing countries providing information to the public, researchers, planners, and stakeholders dealing with sustainability management and strategies, particularly for developing and emerging economic countries.

### Project Management for Construction

### Fundamental Concepts for Owners, Engineers, Architects, and Builders

[Chris Hendrickson](#)

### Management of Construction Projects

### A Constructor's Perspective

[Taylor & Francis](#) Unlike the majority of construction project management textbooks out there, Management of Construction Projects takes a distinctive approach by setting itself in the context of a single and real-world construction project throughout and also by looking at construction project management from the constructor's perspective. This project-based learning approach emphasizes the skills, knowledge, and techniques students require to become successful project managers. This second edition uses a brand new, larger, and more challenging case study to take students through key stages of the process, including: contracts and subcontracting; estimating, scheduling, and planning; supply chain and materials management; cost control, quality, and safety; project leadership and ethics; and claims, disputes, and project close-outs. Also new to this edition is coverage of emergent industry trends such as LEAN, LEED, and BIM. The book contains essential features such as review questions, exercises, and chapter summaries, while example plans, schedules, contracts, and other documents are stored on a companion website. Written in straightforward language from a constructor's perspective, this textbook gives a realistic overview and review of the roles of project managers and everything they need to know in order to see a successful project through from start to finish.

### Construction Site Planning and Logistical Operations

## Site-Focused Management for Builders

[Purdue University Press](#) Organising and administering a construction site so that the right resources get to the right place in a timely fashion demands strong leadership and a rigorous process. Good logistical operations are essential to profitability, and this book is the essential, muddy boots guide to efficient site management. Written by experienced educator-practitioners from the world-leading Building Construction Management programme at Purdue University, this volume is the ultimate guide to the knowledge, skills, and abilities that need to be mastered by project superintendents. Observations about leadership imperatives and techniques are included. Organisationally, the book follows site-related activities from bidding to project closeout. Beyond outlining broad project managerial practices, the authors drill into operational issues such as temporary soils and drainage structures, common equipment, and logistics. The content is primarily geared for the manager of a domestic or small commercial building construction project, but includes some reference to public and international work, where techniques, practices, and decision making can be substantially different. The book is structured into five sections and fifteen chapters. This facilitates ready adaptation either to industry training seminars or to university courses: Section I. The Project and Site Pre-Planning: The Construction Project and Site Environment (Randy Rapp); Due Diligence (Robert Cox); Site Organization and Layout (James O'Connor). Section II. The Site and Field Engineering Issues: Building Layout (Douglas Keith); Soil and Drainage Issues (Yi Jiang and Randy Rapp). Section III. Site Logistics: Site Logistical Procedures and Administration (Daphene Koch); Earthmoving (Douglas Keith); Material Handling Equipment (Bryan Hubbard). Section IV. Leadership and Control: Leadership and Communication (Bradley Benhart); Health, Safety, Environment (HSE), and Security (Jeffrey Lew); Project Scheduling (James Jenkins); Project Site Controls (Joseph Orczyk); Inspection and QA/QC (James Jenkins). Section V. Planning for Completion: Site-Related Contract Claims (Joseph Orczyk); Project Closeout (Randy Rapp).

## Planning and Analysis of Construction Operations

[John Wiley & Sons](#) Focuses on the use of simulation techniques to model and evaluate repetitive construction operations. Based on the CYCLONE and MICROCYCLONE software developed by the authors and used at 38 universities nationwide, it uses a variety of examples from all areas of construction to demonstrate the application of simulation to analyze construction operations.

## The Budget-Building Book for Nonprofits

### A Step-by-Step Guide for Managers and Boards

[John Wiley & Sons](#) This best-selling nuts-and-bolts workbook, now in its second edition, has become the gold standard for nonprofit managers and boards who must work through the budget cycle. The book offers practical tools and guidance for completing each step of the budgeting process. Designed to be comprehensive and easy to use, The Budget-Building Book for Nonprofits provides everything budgeters and nonfinancial managers need to prepare, approve, and implement their own budgets. Includes new chapters on Zero-Based and Capital Budgeting as well as a CD with spreadsheets, worksheets and a new budget-building software, the CMS Nonprofit Budget Builder, designed to help you implement the concepts in the book. The software includes an expandable standard chart of accounts (COA) and will aid in building, organizing, tracking and planning budgets.

## The Management of Construction: A Project Lifecycle Approach

[Routledge](#) Management of Construction introduces all aspects of management practice to students and professionals based in the construction industry. It is also important for those involved in allied fields such as design, project development, and site monitoring and inspection. The book addresses each stage of the construction project from conception to completion, giving a perspective on the whole life cycle often missing from textbooks. The author also balances engineering concerns with the human resource and personal aspects of construction management that are so important to the successful outcome of a project.

## Construction Project Scheduling and Control

[John Wiley & Sons](#) Bad scheduling can doom a construction project from the start Construction Project Scheduling and Control provides a comprehensive examination of the analytical methods used to devise a reasonable, efficient, and successful schedule for construction projects of all sizes. This updated third edition contains new information on building image modeling (BIM) and its relationship to project scheduling and control, as well as thorough coverage of the latest developments in the field. Written by a career construction professional, this informative text introduces students to new concepts in CPM scheduling, including the author's own Dynamic Minimum Lag technique. The expanded glossary and acronym list facilitate complete understanding, and the numerous solved and unsolved problems help students test their knowledge and apply critical thinking to issues in construction scheduling. A complete instructor's manual provides solutions to all problems in the book, test questions for each chapter, and additional exam questions for more comprehensive testing. The entire success of a construction process hinges on an efficient, well-thought out schedule, which is strictly defined while allowing for inevitable delays and changes. This book helps students learn the processes, tools, and techniques used to make projects run smoothly, with expert guidance toward the realities of this complex function. Discover realistic scheduling solutions and cutting edge methods Learn the duties, responsibilities, and techniques of project control Get up to date on the latest in sustainability, BIM, and lean construction Explore the software tools that help coordinate scheduling Scheduling encompasses everything from staff requirements and equipment needs to materials delivery and inspections, requiring a deep understanding of the process. For the student interested in construction management, Construction Project Scheduling and Control is an informative text on the field's current best practices.

## Financial Management and Accounting Fundamentals for Construction

[John Wiley & Sons](#) Successful financial management in the construction industry begins with this hands-on guide While construction professionals are skilled in the technical side of their work, they often find the financial management aspect of the business daunting. Financial Management and Accounting Fundamentals for Construction will help you better understand and navigate the financial decisions that are part of every construction project. This book is a compact summary of the basic financial skills that a construction professional must have to be successful in the management of a construction company and its projects. Its topics address many of the questions that any construction administrator will face, such as: How to organize and use a company's financial reports What amount of cash must be made available to the contractor to complete a project Why the early payment of supplier invoices can enhance profitability How to quantify the time value of money in financial decisions What tax amount is owed by a company and how it impacts the bottom line How to control project costs What financial sources are available to a construction contractor for capital expansion In this text, you will learn about accounting fundamentals, project-related financial matters, and company level financial issues—three factors that are key to your career success. An ideal reference for students of construction management and engineering, as well as professionals who need a quick refresher when dealing with cost control analysis and other financial issues, this text also offers: Easy-to-understand coverage of financial concepts specific to the construction industry, including business taxation, project control, engineering economy, and financial forecasting Numerous worked examples, plus end-of-chapter review questions and exercises Helpful appendices that present the structure of a typical chart of accounts, the flow of transactions through a construction accounting system, and tables required for computing interest and the time value of money

## Afro-European Conference for Industrial Advancement

### Proceedings of the First International Afro-European Conference for Industrial Advancement AECIA 2014

**Springer** This volume contains accepted papers presented at AECIA2014, the First International Afro-European Conference for Industrial Advancement. The aim of AECIA was to bring together the foremost experts as well as excellent young researchers from Africa, Europe, and the rest of the world to disseminate latest results from various fields of engineering, information, and communication technologies. The first edition of AECIA was organized jointly by Addis Ababa Institute of Technology, Addis Ababa University, and VSB - Technical University of Ostrava, Czech Republic and took place in Ethiopia's capital, Addis Ababa.

### Effective Front-End Strategies to Reduce Waste on Construction Projects

**Springer** This volume outlines a progressively staged process focused on fostering a more effective, more efficient, and greener global construction industry. The research-based book commences with an evaluation of eight methodologies identified after a worldwide literature and compliance review. It is followed by a more detailed report on four of these options, with the ultimate objective of independent selection within the construction engineering community of a single most appropriate methodology as the approach for further, more-detailed investigation. The eight methodologies were selected against six key performance indicators developed as assessment criteria and include knowledge management, lean construction, construction contract procurement practices, optimal work duration on site, construction site waste, rationalization of construction safety regulations, sustainable construction labor force, and portfolio project development. A primary outcome of the selected methodology being a triple bottom-line benefit to key stakeholders, commercially and also to the ecology, along with the community at large. Front-end construction waste strategies to serve as best practices to minimize waste generated by construction projects was the methodology selected for detailed research. The text also covers the primary sources of construction waste. The book is ideal for civil and construction engineers as well as project developers; managers and public sector waste management specialists.

### Financial and Cost Concepts for Construction Management

**John Wiley & Sons Incorporated** Designed for engineering students in upper-level courses of construction management or cost control, this text provides a thorough grounding in all aspects of financial management so that the construction engineering manager can understand how to control costs and communicate with the accountant or bookkeeper. Features include explanations of financial documents and cost reports and an overview of bookkeeping fundamentals.

### Proceedings of the 17th International Symposium on Advancement of Construction Management and Real Estate

**Springer Science & Business Media** The Chinese Research Institute of Construction Management (CRIOCM) in collaboration with Shenzhen University (SZU) proudly invites all academics, researchers and professionals to participate in the CRIOCM 2012, the 17th International Symposium on "Advancement of Construction Management and Real Estate." We will uphold and preserve the idea and tradition of pragmatism and innovation, to offer an excellent academic and communication platform for academics and professionals to exchange information on the latest developments in real estate and construction management.

### Project Scheduling and Management for Construction

**John Wiley & Sons** First published in 1988 by RS Means, the new edition of Project Scheduling and Management for Construction has been substantially revised for students enrolled in construction management and civil engineering programs. While retaining its emphasis on developing practical, professional-level scheduling skills, the new edition is a relatable, real-world case study that can be used over the course of a semester. The book also includes classroom elements like exercises, quizzes, skill-building exercises, as well as an instructor's manual including two additional new cases.

### A Guidebook for Selecting Airport Capital Project Delivery Methods

**Transportation Research Board** describes various project delivery methods for major airport capital projects. The guidebook also evaluates the impacts, advantages, and disadvantages of these various project delivery methods. The project delivery methods discussed include design-bid-build (DBB), construction manager at risk (CMR), and design-build (DB). The guidebook offers a two-tiered project delivery selection framework that may be used by owners of airport projects to evaluate the pros and cons of each delivery method and select the most appropriate method for their project. Tier 1 is an analytical delivery decision approach that is designed to help the user understand the attributes of each project delivery method and whether the delivery method is appropriate for their specific circumstance. Tier 2 uses a weighted-matrix delivery decision approach that allows users to prioritize their objectives and, based on the prioritized objectives, select the delivery method that is best suited for their project. The report will be helpful to airports with determining the most appropriate project delivery methods (e.g., DBB, DB, or CMR) for various types of airport capital projects.

### Construction Project Management:

**Pearson Education India** Construction Project Management deals with different facets of construction management emphasizing the basic concepts that any engineering student is supposed to know. The book features computer applications (Primavera and MS Project) used to explain

### Construction Project Management

### Theory and Practice

**Pearson Education India** Construction Project Management deals with different facets of construction management emphasizing the basic concepts that any engineering student is supposed to know. The major principles of project management have been derived through real life case studies from the field. Simplified examples have been used to facilitate better understanding of the concepts before going into the large and complex problems. The book features computer applications (Primavera and MS Project) used to explain planning, scheduling, resource leveling, monitoring and reporting; it is highly illustrated with line dia.

## The Owner's Role in Project Risk Management

[National Academies Press](#) Effective risk management is essential for the success of large projects built and operated by the Department of Energy (DOE), particularly for the one-of-a-kind projects that characterize much of its mission. To enhance DOE's risk management efforts, the department asked the NRC to prepare a summary of the most effective practices used by leading owner organizations. The study's primary objective was to provide DOE project managers with a basic understanding of both the project owner's risk management role and effective oversight of those risk management activities delegated to contractors.

## Implementing IT Business Strategy in the Construction Industry

[IGI Global](#) Technology development has provided fundamental benefits of speed, precision, and convenience to common business strategies; providing not only a means for functional integration, but also an opportunity to enhance competitive capability of a business firm. Implementing IT Business Strategy in the Construction Industry brings together topics on understanding business strategy and competitive advantage, as well as essential benefits of concepts and technologies for improving efficiency of the construction industry. This reference source is directed toward researchers, policy-makers, practitioners, undergraduate, and postgraduate students, in order to gain insights into the complex workings of the traditional construction industry and the concepts and tools used to facilitate a strategically IT enabled industry.

## Productivity in Construction

## Computer-Based Construction Project Management

## Pearson New International Edition

[Pearson Higher Ed](#) For senior-level courses in Construction Project Management, and undergraduate/graduate-level courses in Computer-Aided Construction Management. This text views basic project management concepts from an information technology perspective. It contains comprehensive coverage of quantitative construction management techniques for planning, scheduling, estimating, cost optimization, cash flow analysis, bidding, and project control. All concepts are presented both manually and on computer applications, with a single case study to clearly demonstrate the evolution of concepts in the successive chapters.

## Construction Extension to the PMBOK® Guide

[Project Management Institute](#) A Guide to the Project Management Body of Knowledge (PMBOK® Guide) provides generalized project management guidance applicable to most projects most of the time. In order to apply this generalized guidance to construction projects, the Project Management Institute has developed the Construction Extension to the PMBOK® Guide. This Construction Extension provides construction-specific guidance for the project management practitioner for each of the PMBOK® Guide Knowledge Areas, as well as guidance in these additional areas not found in the PMBOK® Guide: •All project resources, rather than just human resources •Project health, safety, security, and environmental management •Project financial management, in addition to cost •Management of claims in construction This edition of the Construction Extension also follows a new structure, discussing the principles in each of the Knowledge Areas rather than discussing the individual processes. This approach broadens the applicability of the Construction Extension by increasing the focus on the "what" and "why" of construction project management. This Construction Extension also includes discussion of emerging trends and developments in the construction industry that affect the application of project management to construction projects.

## Employee Resourcing in the Construction Industry

## Strategic Considerations and Operational Practice

[Routledge](#) Construction is one of the most challenging industrial environments for effective people management. It is characterised by geographically dispersed projects, production-oriented management styles, long working hours, high levels of staff turnover and employment practices grounded in the traditional 'personnel' paradigm. The employee resourcing function - recruitment, selection and deployment - is largely reactive and intuitive, and fails to draw on the longer-term benefits of strategic human resource management (SHRM). This book explores the challenges inherent in employee resourcing in-depth. It provides insights into the strategic considerations and operational approaches adopted by large construction organisations in deploying their human resources. It presents an improved framework for informed SHRM-style decision-making derived from an extensive study conducted within eight major construction organisations. This book provides a valuable resource for both students and practitioners interested in evaluating and improving current organisational practice.

## Risk Management Treatise for Engineering Practitioners

[BoD - Books on Demand](#) This book "Risk Management Treatise for Engineering Practitioners" has been published by academic researchers and experts on risk management concepts mainly in the construction engineering sector. It addresses basic theories and principles of risk management backed up, in most cases, with case studies. The contributions for this book came from authors in Europe, the Far East and Africa, and it is hoped that the contents of this book will be useful to anyone interested in understanding the principles and applications of risk management, especially within the construction engineering sector. Researchers and postgraduate students in science and engineering disciplines, especially those interested in project management, will find this book useful.

## The New Entrepreneurial Advocacy

## Silicon Valley Elites in American Politics

[Oxford University Press](#) The role of business in American politics has provoked much controversy and attention over recent years. One need look no further than the Koch brothers or the Trump administration to get an idea of the extent to which the interests of private business wield influence over the political system. Contemporary evidence of the clear and growing disparities in wealth between ordinary citizens and business elites has drawn new attention to this topic. Recently, the canon on the activities of business elites in politics has also grown as we have learned a great deal about how business firms and their ultra-wealthy leaders and investors seek to exert political influence. This book looks at one form of business elite activity that has thus far received little attention, despite the

high-profile political efforts of billionaire businesspeople including Bill Gates, Elon Musk, and Mark Zuckerberg: a phenomenon that Darren R. Halpin and Anthony J. Nownes call new entrepreneurial advocacy. This "entrepreneurial advocacy" is a mode of political engagement in which wealthy entrepreneurs (often from Silicon Valley) use their vast resources to form new organizations that advocate for their vision of the social good, which may or may not be directly linked to their private or business interests. While previous studies focus on a cross section of either the wealthiest Americans or the largest firms in the United States, this book takes a deep-dive into the political activities of a single, yet pivotal, cohort--the founders and CEOs of Silicon Valley firms. Specifically, the authors trace the development of new entrepreneurial advocacy to understand its extent, its breadth, and whose interests they represent, who supports them financially, and why business elites choose to create new organizations to engage in advocacy rather than do so under the umbrellas of their companies. Crucially, the authors also look at the impact of these organizations and what their activity means for American democracy. Leveraging a vast range of unique datasets, from political donations and lobbying to philanthropic giving and social media commentary, this book examines the role of this important set of elites in contemporary American political life.

## Construction Project Scheduling and Control

John Wiley & Sons

### Project Management

## Techniques in Planning and Controlling Construction Projects

Wiley-Interscience Completely rewritten book introducing quantitative analysis techniques for complex construction projects. Discusses and explains the need for analytic tools, and then demonstrates their use in planning and control of projects. Applies a systems approach to project planning and control, and describes the methodology step-by-step. Describes the use of computers in project planning and control.

## Nursing Leadership and Management

### For Patient Safety and Quality Care

F.A. Davis Take an evidence-based approach to leadership. Learn the skills you need to lead and succeed in the dynamic healthcare environments in which you will practice. From leadership and management theories through their application, you'll develop the core competences you need to provide and manage care of the highest quality to your patients. You'll also be prepared for the initiatives that are transforming the delivery and cost effectiveness of health care today.

## Sustainable Business Models

MDPI This book is a printed edition of the Special Issue "Sustainable Business Models" that was published in Sustainability

## Building Information Modeling

## A Strategic Implementation Guide for Architects, Engineers, Constructors, and Real Estate Asset Managers

John Wiley & Sons The optimal approach to design, build, operate, and maintain buildings With this strategic guide to building information modeling (BIM), you'll learn how to implement this new technology as part of a comprehensive systems approach to the design, construction, management, operation, maintenance, and use of buildings. The authors, among the leading experts and pioneers in BIM, show you how BIM supports more streamlined, integrated, and efficient business processes throughout the lifecycle of buildings, from their initial conception through their eventual retirement or reuse. The result is better quality buildings, lower construction and operating costs, shorter project turnaround times, and a higher quality of building information to support better business decisions. Moreover, they set forth a plan for incorporating BIM into every organization's existing workflows, enabling you to take full advantage of all the benefits that BIM offers. Everything you need to implement a BIM approach is set forth in detail, including: The business case for BIM, demonstrating how it can improve collaboration, facilitate better design and construction, optimize workflow, and help reduce risk Guidance for meeting the challenges of BIM such as an entrenched business culture, the proliferation of BIM tools, and the uneven rates of BIM adoption The "big picture" view showing how your organization can work with business partners and fit into the building life cycle in a BIM-enabled industry Throughout the book, sample documents and figures help you better understand the principles of BIM and how it works in practice. In addition, first-hand accounts show you exactly how adopters of BIM have gained a competitive edge. Architects, engineers, constructors, building owners, and facility managers can turn to this book to realize the full potential of BIM and radically improve the way buildings are redesigned, built, operated, and maintained.

## Modern Construction Management

John Wiley & Sons This new edition of a core undergraduate textbook for construction managers reflects current best practice, topical industry preoccupations and latest developments in courses and fundamental subjects for students. While the construction process still requires traditional skills, changes over recent decades today demand improved understanding of modern business, production and contractual practices. The authors have responded accordingly and the book has undergone a thorough re-write, eliminating some of the older material and adding new processes now considered essential to achieving lean construction. Particular emphasis is given, for example, to supply chains and networks, value and risk management, BIM, ICT, project arrangements, corporate social responsibility, training, health and welfare and environmental sustainability. Modern Construction Management presents construction as a socially responsible, innovative, carbon-reducing, manager-involved, people-orientated, crisis-free industry that is efficient and cost effective. The overall themes for the Seventh Edition are: Drivers for efficiency: lean construction underpinning production management and off-site production methods. Sustainability: reflecting the transition to a low carbon economy. Corporate Social Responsibility: embracing health & safety, modernistic contracts, effective procurement, and employment issues. Building Information Management: directed towards the improvement of construction management systems. The comprehensive selection of worked examples, based on real and practical situations in construction management and methods will help to consolidate learning. A companion website at <http://www.wiley.com/go/MCM7> offers invaluable support material for both tutors and students: Solutions to the self-learning exercises PowerPoint slides with discussion topics Journal and web references Structured to reflect site, business and corporate responsibilities of managers in construction, the book continues to provide strong coverage of the salient elements required for developing and equipping the modern construction manager with the competencies and skills for both technical and business related areas.

## Construction Congress VI

Building Together for a Better Tomorrow in an Increasingly Complex World : Proceedings of the Congress : February 20-22, 2000, Orlando, Florida

[Amer Society of Civil Engineers](#) This collection contains 131 papers presented at the Sixth Construction Congress, held in Orlando, Florida, February 20-22, 2000.

## Biosafety in Microbiological and Biomedical Laboratories

## Valuing People in Construction

[Routledge](#) Valuing People in Construction provides contemporary perspectives on the 'glue' that binds the construction process together; people. The book addresses people issues in the construction industry where behavioural outcomes impact upon business and project performance. The main proposition of the book is that as people continue to lead the completion of construction activities, their health, safety, and well-being should be seen as a priority, and valued by stakeholders. As employers and employees, the role of people in construction must be to strive for the improvement of individual lives and society. This edited collection, which is the first book to focus specifically on placing value on people in construction, focuses on people at work, gender at work, conditions at work, and respect at work. In addition to an editorial overview, the book presents tested and refined empirical work and case studies by leading construction researchers from Africa, Australia, and Europe. Essential reading for researchers, students and professionals interested in construction management, the sociology of construction, HRM in construction, gender, work and health studies.

## Business Modeling and Software Design

4th International Symposium, BMSD 2014, Luxembourg, Luxembourg, June 24-26, 2014, Revised Selected Papers

[Springer](#) This book contains the extended and revised versions of selected papers from the 4th International Symposium on Business Modeling and Software Design, BMSD 2014, held in Luxembourg, Luxembourg, in June 2014. The symposium was organized and sponsored by the Interdisciplinary Institute for Collaboration and Research on Enterprise Systems and Technology (IICREST), in collaboration with the Public Research Centre Henri Tudor (TUDOR). Cooperating organizations were the Dutch Research School for Information and Knowledge Systems (SIKS), Aristotle University of Thessaloniki (AUTH), the UTwente Center for Telematics and Information Technology (CTIT), and AMAKOTA Ltd. The 37 papers presented at BMSD 2014 were selected from 52 submissions. The seven papers published in this book were carefully reviewed, selected, revised, and extended from the presented papers. The selection considers a large number of BMSD-relevant research topics: from modeling and simulation-related subjects, such as declarative business rules, business (process) modeling, business process simulation, and information systems modeling, through architectures-related areas, such as impact analysis with regard to enterprise architectures and architectural principles for service cloud applications, to topics touching upon quality-of-service-aware service systems.

## On the Move to Meaningful Internet Systems: OTM 2008 Workshops

OTM Confederated International Workshops and Posters, ADI, AWeSoMe, COMBEK, EI2N, IWSSA, MONET, OnToContent & QSI, ORM, PerSys, RDDS, SEMELS, and SWWS 2008, Monterrey, Mexico, November 9-14, 2008, Proceedings

[Springer Science & Business Media](#) the second covering the issues of security in complex Internet-based information systems. Each of these 7ve conferences encourages researchers to treat their respective topics within a framework that incorporates jointly (a) theory, (b) conceptual design and development, and (c) applications, in particular case studies and industrial solutions. Following and expanding the model created in 2003, we again solicited and selected quality workshop proposals to complement the more "archival" nature of the main conferences with research results in a number of selected and more "avant-garde" areas related to the general topic of distributed computing. For instance, the so-called Semantic Web has given rise to several novel research areas combining linguistics, information systems technology, and artificial intelligence, such as the modeling of (legal) regulatory systems and the ubiquitous nature of their usage. We were glad to see that in spite of the move switching sides of the Atlantic, seven of our earlier successful workshops (notably AweSoMe, SWWS, ORM, OnToContent, MONET, PerSys, RDDS) re-appeared in 2008 with a third or even fourth edition, sometimes by alliance with other newly emerging workshops, and that no fewer than seven brand-new independent workshops could be selected from proposals and hosted: ADI, COMBEK, DiSCo, IWSSA, QSI and SEMELS. Workshop audiences productively mingled with each other and with those of the main conferences, and there was considerable overlap in authors. The OTM organizers are especially grateful for the leadership, diplomacy and competence of Dr. Pilar Herrero in managing this complex and delicate process for the 7th consecutive year.

## Expanding Underrepresented Minority Participation

## America's Science and Technology Talent at the Crossroads

[National Academies Press](#) In order for the United States to maintain the global leadership and competitiveness in science and technology that are critical to achieving national goals, we must invest in research, encourage innovation, and grow a strong and talented science and technology workforce. Expanding Underrepresented Minority Participation explores the role of diversity in the science, technology, engineering and mathematics (STEM) workforce and its value in keeping America innovative and competitive. According to the book, the U.S. labor market is projected to grow faster in science and engineering than in any other sector in the coming years, making minority participation in STEM education at all levels a national priority. Expanding Underrepresented Minority Participation analyzes the rate of change and the challenges the nation currently faces in developing a strong and diverse workforce. Although minorities are the fastest growing segment of the population, they are underrepresented in the fields of science and engineering. Historically, there has been a strong connection between increasing educational attainment in the United States and the growth in and global leadership of the economy. Expanding Underrepresented Minority Participation suggests that the federal government, industry, and post-secondary institutions work collaboratively with K-12 schools and school systems to increase minority access to and demand for post-secondary STEM education and technical training. The book also identifies best practices and offers a comprehensive road map for increasing involvement of underrepresented minorities and improving the quality of their education. It offers recommendations that focus on academic and social support, institutional roles, teacher preparation, affordability and program

development.