Building Tomorrow Innovation In Construction And Engineering

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Construction Innovation Finn Orstavik 2015-01-20 Construction innovation is an important but contested concept, both in industry practice and academic reflection and research. A fundamental reason for this is the nature of the construction industry itself: the industry and the value creation activities taking place there are multi-disciplinary, heterogeneous, distributed and often fragmented. This book takes a new approach to construction innovation, revealing different perspectives, set in a broader context. It coalesces multiple theoretical and practice-based views in order to stimulate reflection and to prepare the ground for further synthesis. By being clear, cogent and unambiguous on the most basic definitions, it can mobilise a plurality of perspectives on innovation to promote fresh thinking on how it can be studied, enabled, measured, and propagated across the industry. This book does not gloss over the real-life complexity of construction innovation. Instead, its authors look explicitly at the challenges that conceptual issues entail and by making their own position clear, they open up fresh intellectual space for reflection. Construction Innovation examines innovation from different positions and through different conceptual lenses to reveal the richness that the theoretical perspectives offer to our understanding of the way that the construction sector actors innovate at both project and organizational levels. The editors have brought together here leading scholars to deconstruct the concept of innovation and to discuss the merits of different perspectives, their commonalities and their diversity. The result is an invaluable sourcebook for those studying and leading innovation in the design, the building and the maintenance of our built environment.

Handbook of Research on Driving Transformational Change in the Digital Built Environment Underwood, Jason 2021-05-07 The construction industry is amidst a digital transformation that is focused on addressing well-documented issues and calls for significant improvements and changes through increased productivity, whole-life value, client focus, reduction of waste, and being more sustainable. The key aspect to driving change and transformation is the education and upskilling of the required workforce towards developing the required capacities. Various approaches can be taken to embed digital construction within education and through collaborative efforts in order to drive change and facilitate improvements. The Handbook of Research on Driving Transformational Change in the Digital Built Environment focuses on current developments in practice and education towards facilitating transformation in the built environment. This book provides insight, from a practice perspective, in relation to the client’s understanding, digitally enabled collaboration, interoperability and open standards, and maturity/capability. Covering topics that include digital transformation and construction, digitally enabled infrastructure, building information modelling, collaborative digital education, and
the digital built environment, this book is an ideal reference source for engineers, professionals, and researchers in the field of digital transformation as well as doctoral scholars, doctoral researchers, professionals, and academicians.

**Sustainability Assessments of Buildings**
Umberto Berardi 2018-07-06 This book is a printed edition of the Special Issue "Sustainability Assessments of Buildings" that was published in Sustainability

**Construction - Craft to Industry**
Gyula Sebestyen 2003-09-02 This book provides a unique and comprehensive survey of changes and trends in the construction industry focusing on the post-war years and emphasizing their contemporary and future relevance.

**Creating Tomorrow's Surface Transportation Systems**
United States 1994

**Construction Review**
1986

**Policies, Programs and People that Shape Innovation in Housing**
Andrew P. McCoy 2015-06-01 Businesses, consumers, industry groups, and governments understand the importance of innovation and the innovation process for continued economic success and improvements in quality of life. However, innovation remains an opaque topic. A paradox exists in housing at-large; using innovation is vital yet accounting for the value to individual organizations remains a challenge. This paradox is supported by a landscape that includes a sizeable graveyard of failed attempts at innovation on grand and small scales. This book seeks to decrease the opacity of innovation processes in residential construction and housing. Along with the next book in the collection, this book addresses key questions pertinent to the potential for widespread diffusion of green buildings and for improvements in community sustainability. The overarching purpose of this book is to provide context and foundation for later books in the collection and to assist readers in peeling back the complex layers of innovation in housing and residential construction.

**Building Tomorrow**
André Manseau 2005 By bringing together economic, social and construction/engineering management perspectives, this book offers a unique and comprehensive survey of innovative new approaches to construction and new methodologies. It presents a history of studies in innovation in construction and engineering, and then presents the most recent models of innovation brokering and risk-management, based on complex project-based industries.

**Construction Management and Organisational Behaviour**
Maureen Rhoden 2017-05-02 This book offers a comprehensive and up-to-date account of management ideas and practices, focusing on the human relations side of construction management. Easily accessible and suitable for use within the classroom or in distance learning situations, it discusses a range of themes and trends covering evidence based management practices in the construction industry. A variety of learning elements will be included, such as case studies, projects, and review questions, fully supported by interactive web based material including multiple choice questions, exercises, annotated links to other relevant web sites and an online glossary to explain key terms. Each chapter will also contain annotated further reading, chapter summaries and outline summaries of relevant legislation within the construction industry.

**The Thousand Faces of Virtual Reality**
Cecília Sík Lányi 2014-11-26 Virtual Reality (VR) has thousand faces. Why? Because from the moment of VRs birth we use it in every field of our life. VR is based on the development of information technology, computer graphics, and strong high speed hardware. VR has high impact not only on research but on our daily living as well. This book has an aim to present applications, trends and newest development in three main disciplines: health sector, education and industry. In this book several new applications are presented in three sections. The first part of the book deals with health care applications. It is followed by a literature review of Augmented Reality (AR). The second section contains industry field education disciplines. The last part shows several industry applications and research. This book will be useful for researchers, engineers and students.

**A Strategic Analysis of the Construction Industry in the United Arab Emirates**
Viktor Gorgenländer 2010-06-21

Inhaltsangabe:Introduction: The construction industry is one of the most booming industries in...
the world. In particular, in the United Arab Emirates this industry has experienced a constant growth over the course of the last few years. Driven by the UAE’s oil wealth, the country has witnessed an unmatched development and transformation. Oil revenues have lead to a driving construction boom and completely change the face of the state. The construction industry is still one of the engines of economic growth in the UAE. One of the highest concentrations of cranes in the world speaks volumes about the incredible pace of construction taking place, particularly in Dubai and Abu Dhabi, but also in the other emirates. The fact that about 30,000, or 24 percent of the world’s 125,000 construction cranes are currently operating in the region speaks for itself. The UAE’s construction projects stands out clearly from building projects in other parts of the world, due to the fact that there is no constraint on constructional imagination and there is no place in the world where construction moves as fast as in the UAE. With some of the most innovative mega projects such as Burj Khalifa (the tallest building in the world), or The Palm Jumeirah, The Palm Jebel Ali and The Palm Deira (the world’s largest man-made islands) with epithets of world’s biggest, best, and tallest the UAE construction industry remains unbeaten. The construction industry is a complex environment in which each organization is faced with numerous opportunities and threats. This academic paper provides an in-depth analysis of the fast growing construction industry in the UAE, while scanning the construction business for opportunities and threats. This thesis implements the PESTEL analysis that will be used to analyze the UAE’s construction industry. The main objective of this paper is to identify the factors in the macro-environment that might affect an organization. Having the PESTEL context, this output is used to execute a SWOT analysis. The PESTEL factors combined with external micro-environmental factors are classified as opportunities and threats in a SWOT analysis. Thus, the thesis also aims to identify the opportunities and threats in the construction business. This academic paper does not assess company’s internal strengths and weaknesses. Through strategic analysis of the UAE’s construction business this paper creates an adequate framework that helps participants of the [...]
interdisciplinary field of Infranomics. It enables better decision making in an increasing ambiguous, complex, emergent, interdependent, and uncertain world where we attempt to anticipate modern society trends and patterns in order to react appropriately. However, as with any emerging discipline, much research is needed at the applications and conceptual level. The applications level may require development and testing of methods, tools, and techniques to enable analysis and decision-making in ambiguous, complex, emergent, interdependent, and uncertain conditions while the conceptual level may require taping into driving philosophies, theories, and methodologies that form the basis for Infranomics. Striking the right balance between applications and conceptual foundation (theory) requires rigorous research. This book provides a springboard for robust discussions on applications, theory, and transformation of current thinking to better deal with modern society’s problematic issues using Infranomics.

The Handbook of Innovation and Services
F. Gallouj 2011-11-01 'This book represents a significant step towards dealing with the lacuna constituted by the inadequacy of the literature on the services. And, as such, it approaches its task from a variety of directions.' From the foreword by William J. Baumol, New York University, US 'The Handbook of Innovation and Services is an exceptional volume. Its contributors, including Faïz Gallouj, William Baumol, Jean Gadrey, and Pascal Petit, are among the major thinkers in both the fields of the economics of services and the economics of innovation. Selected topics include the "cost disease", services innovation in the global economy, social innovation in the services, and innovation and employment in services. The book, I am sure, will become a standard reference volume in both these fields in the ensuing years.' Edward Wolff, New York University, US This Handbook brings together 49 international specialists to address an issue of increasing importance for the world’s post-industrial economies; innovation as it relates to services. Contemporary economies have two fundamental characteristics. Firstly, they are service economies in as much as services account for more than 70 per cent of the wealth and jobs in most developed countries. Secondly, they are innovation economies as recent decades have seen an unprecedented development of scientific, technological, organisational and social innovations. This Handbook expertly links these two major characteristics in order to investigate the role of innovation in services, an issue that until now has been inadequately explored and one that poses many theoretical and operational challenges. This comprehensive volume encompasses the views of eminent scholars from a range of disciplines including economics, management, sociology and geography, and draws on a number of different analytical and methodological perspectives. With its multi-disciplinary approach this Handbook will be an invaluable reference source for academics and students in the fields of economics, management and the geography of services and innovation. Public authorities and managers in the service sector will also find this book fascinating.

The Connectivity of Innovation in the Construction Industry
Malena Ingemansson Havenvid 2019-04-01 The construction industry is currently experiencing accelerating developments concerning societal demands along with project complexity, internationalization and digitalization. In an attempt to grasp the consequences of these demands on productivity and innovation, this edited book addresses how innovation is likely to take place with a more long-term perspective on the construction sector. While existing literature focuses on organizational discontinuity and fragmentation as the main reasons for the apparent lack of innovation in the industry, this book highlights the connectivity of construction actors, resources and activities as fundamental for understanding how innovation takes place. Through 15 empirically grounded chapters, the book shows how innovation is part of construction processes on various levels, including project, firm and industry, and that these innovation processes are characterized by organizational and technological connectivity over time. Written by European business management scholars, the chapters cover empirical cases and examples from both a multi-organizational and a multi-international perspective in terms of covering the viewpoints.
of different industry actors and the contexts of several different European countries including: Sweden, Norway, the UK, Italy, France, Hungary and Poland. By illustrating how connectivity is part of innovation processes in the creation of single-product innovations, of various innovations within and across projects, as well as a fundamental aspect of the processes in which innovations cross nations, the book provides a new angle on how to understand construction innovation and where the industry might (or needs to) be heading next. This book is essential reading for anyone interested in construction management, project management, engineering management, innovation studies, business and management studies.


**Building Tomorrow: Innovation in Construction and Engineering** André Manseau 2019-09-16 In the past decade construction and engineering have changed dramatically, with an explosion of innovative new approaches to construction and new methodologies. By bringing together economic, social and construction/engineering management perspectives, this book offers a unique and comprehensive survey of these approaches and techniques. It presents a history of studies in innovation in construction and engineering, and then presents the most recent models of innovation brokering and risk-management, based on complex project-based industries. Innovation is defined and competing theories are discussed in the light of operational issues. The book covers all aspects, including the importance of construction and engineering 'cultures' in the trades for successful project innovation. It also discusses the role of government and policy makers, the implications of rapid change for the building trades and skilled labour, and the difficulty of measuring innovation quantitatively.

**Offsite Production and Manufacturing for Innovative Construction** Jack S. Goulding 2019-06-19 The offsite and modular market is continuing to grow. This book builds on the success of a number of initiatives, including formative findings from literature, research and development and practice-based evidence (success stories). It presents new thinking and direction from leading experts in the fields of: design, process, construction, engineering, manufacturing, logistics, robotics, delivery platforms, business and transformational strategies, change management, legislation, organisational learning, software design, innovation and biomimetics. This book is particularly novel and timely, as it brings together a number of cogent subjects under one collective 'umbrella'. Each of these chapters contain original findings, all of which culminate in three 'Key Learning Points' which provide new insight into the cross-cutting themes, interrelationships and symbiotic forces that exist between each of these chapters. This approach also provides readers with new contextualised understanding of the wider issues affecting the offsite market, from the need to embrace societal challenges, through to the development of rich value-laden solutions required for creating sector resilience. Content includes a balance between case studies and practice-based work, through to technical topics, theoretical propositions, pioneering research and future offsite opportunities ready for exploitation. This work includes: stakeholder integration, skills acquisition, new business models and processes, circularity and sustainable business strategies, robotics and automation, innovation and change, lean production methodologies and new construction methods, Design for Manufacturing and Assembly, scaled portfolio platforms and customisability, new legal regulatory standards and conformance issues and offsite feasibility scenario development/integration.

**Rethinking Building Skins** Eugenia Gasparri 2021-12-05 Rethinking Building Skins: Transformative Technologies and Research Trajectories provides a comprehensive collection of the most relevant and forward-looking research in the field of façade design and construction today, with a focus on both product and process innovation. The book brings together the expertise, creativity, and critical thinking of more than fifty global innovators from both academia and industry, to guide the reader in translating research into practice. It
identifies new opportunities for the construction sector to respond to present challenges, towards a more sustainable, efficient, connected, and safe future. Introduces the reader to the role of façades with respect to the main challenges ahead; Provides an overview of the major façade technological advancements throughout history and identifies prospective research trajectories; Includes interviews with key industry players from different backgrounds and expertise; Showcases a comprehensive range of leading research topics in the field, organised by product and process innovation; Covers major innovations across the value chain including façade design, fabrication, construction, operation and maintenance, and end-of-life; Contributes towards the definition of an international research agenda and identifies emerging market opportunities for the façade industry.

Building for Tomorrow National Research Council 1988-02-01

Evaluation Findings of the MX 30 Pavement Marking Retroreflectometer Highway Innovative Technology Evaluation Center (U.S.) 2000-01-01 Prepared by the Highway Innovative Technology Evaluation Center (HITEC), a CERF service center. This report presents the results of a detailed evaluation of the MX 30 pavement marking 30-meter retroreflectometer. The evaluation is designed to test the measurement bias, repeatability, and reproducibility of handheld and mobile retroreflectometers produced by several manufacturers.

Clients Driving Innovation Peter S. Brandon 2009-01-26 In recent years the construction industry has been criticised for lack of successful innovation compared to other major industries. The question of why the industry has not been seen to be innovative has created concern among many involved with construction and property. The driving concern is where the motivation for this innovation should come from. Although construction clients have made an impact in this area, the industry itself seems divided as to whether, when and where clients should drive the innovation process. Clients Driving Innovation brings together an international group of researchers and practitioners to investigate the role of clients in construction innovation. Written in three parts, it covers the context for innovation driven by clients, the client impact on the innovation process and how new ideas can be pushed through into practice. Numerous case studies illustrate the role clients can play and the key issues that need to be addressed. With increasing interest in the contribution clients can make to construction innovation, Clients Driving Innovation will be essential reading for construction management researchers, major construction contractors and clients and government policy makers.

Research Companion to Construction Economics Ofori, George 2022-03-15 This innovative Research Companion considers the history, nature and status of construction economics, and its need for development as a field in order to be recognised as a distinct discipline. It presents a state-of-the-art review of construction economics, identifying areas for further research.

Governing Practices Michelle Brady 2016-10-27 Neoliberalism is among the most commonly used concepts in the social sciences. Furthermore, it is one of the most influential factors that have shaped the formation of public policy and politics. In Governing Practices, Michelle Brady and Randy Lippert bring together prominent scholars in sociology, criminology, anthropology, geography, and policy studies to extend and refine the current conversation about neoliberalism. The collection argues that a new methodological approach to analyzing contemporary policy and political change is needed. United by the common influence of Foucault’s governmentality approach and an ethnographic imaginary, the collection presents original research on a diverse range of case studies including public-private partnerships, the governance of condos, community and state statistics, nanopolitics, philanthropy, education reform, and pay-day lending. These diverse studies add considerable depth to studies on governmentality and neoliberalism through a focus on governmental practices that have not previously been the focus of sustained analysis.

CIM Handbook of Strategic Marketing Colin Egan 2010-02-17 The CIM Handbook of Strategic Marketing targets senior executives responsible for shaping and managing the company’s strategic direction. The strategic dimensions of marketing management are emphasised along with the critical importance of matching the company’s capabilities with genuinely attractive market sectors. The Handbook’s strategic perspective and pragmatic outlook pervade the text and underpin its practical foundations. The rise of global competition and continuous innovation have redefined market structures, reshaped industries and given customers unprecedented value and choice. In this era of customer sovereignty there is a tremendous amount of pressure on organizations to adopt the principles of the marketing concept and to develop a much sharper strategic focus. The CIM Handbook of Strategic Marketing is a reference source to guide effective marketing practice. It provides supportive material for managers and employees who are building their marketing competence by attending training programmes, and includes contributions from leading academics - such as, Peter Doyle, Malcolm McDonald, Nigel Piercy. The book amounts to a firm blueprint written by leading marketing thinkers for designing and implementing effective marketing strategies and improving business performance. Colin Egan is Professor of Strategic Management at Leicester Business School. Michael J Thomas is Professor of Marketing at the University of Strathclyde Business School.

Clients and Users in Construction Kim Haugbølle 2017-06-14 Clients have been identified as critical for building delivery but have been under-researched with only a few studies about them. This book seeks to address this gap. A deeper look into the nature of construction clients and their relation to building users exposes more fundamental questions related to the activity of building and the activity in the building. These fundamental questions include 'How do clients get what they want?', 'How do clients cope with the building process?', and 'How are clients being shaped by building(s)?'. This book on clients and users is structured around three main themes: Agency is concerned with the classical agency/structure dichotomy on actions, roles and responsibilities or, put differently, whether actors can act freely or are bound by structural constraints. Governance is related to the interplay between clients and the supply system: clients govern the supply system but are at the same time governed by the supply system through different processes and mechanisms. Innovation deals with construction innovation and what part clients and users play in this struggle between change and stability. The book includes theoretical and conceptual frameworks on what constitutes clients and users as well as case studies on R&D themes of relevance to practice.

Marketing Michael John Baker 2001 The American Construction Industry Brian Bowen 2021-08-20 The American Construction Industry meticulously chronicles the evolution of the construction industry from its roots in the medieval guild system to the high-tech jobsite of tomorrow. While celebrating more than two millennia of progress and innovation, this resource for students and professionals uncovers the ways of working that crossed the Atlantic with the earliest European settlers and will continue to define building trades in the United States today and in the years and decades to come. Full color illustrations bring the past to life and provide visual links to the present day. The Role of Public Agencies in Fostering New Technology and Innovation in Building National Research Council 1992-02-01 This book explores innovation in the U.S. construction-related industries (i.e., design services, construction, building materials and products manufacture, and facilities operation and maintenance) and recommends a strategy for fostering new technology. These industries account for about ten percent of the U.S. economy; federal agencies themselves spend some $15 billion annually on construction. A government strategy based on federal agencies that encourage applications of new technology for their own projects, activities to enhance the pursuit and effective transfer of new technology to the U.S. private sector, and increased support for targeted efforts to develop new technologies in specific areas will yield many benefits. These include better cost, quality, and performance in government facilities, generally improved quality of life, and enhanced U.S. industrial
competitiveness in international markets. 

**Moving to Sustainable Buildings: Umberto Berardi 2013-11-07** In his Moving to Sustainable Buildings. Paths to Adopt Green Innovations in Developed Countries, Umberto Berardi explores the transition of the construction sector to sustainable building through the adoption of green innovations. Applying methods ranging from theoretical discussions to interviews and field studies, Berardi describes how organisational models among stakeholders are changing as the sector moves towards a green economy. Berardi’s book should prove valuable to engineers, architects, environment researchers and policy makers alike, as it successfully weaves together different aspects of green building to create a multidimensional matrix through which sustainable architecture can be understood. Umberto Berardi, an assistant professor at the Worcester Polytechnic Institute (MA, USA), teaches courses on sustainable construction, architectural engineering systems and building physics. He was awarded an MSc from the Politecnico di Bari, an MSc from the University of Southampton (UK) and a PhD from the Scuola Interpolitecnica in Italy. His research areas are related to building acoustics, sustainable constructions and energy saving technologies for buildings. Berardi is also a passionate pianist and a strong proponent of interdisciplinary cooperation between the arts and engineering.

**Strategic Project Organizing** Graham Miles Winch 2022-02-28 Strategic Project Organizing takes a unique approach to project management. By placing emphasis on the strategic and organizational aspects of projects and their leadership, this balanced text guides the reader through the organizational challenges of enabling positive change.

**Delivering Value with BIM** Adriana X. Sanchez 2016-03-31 Building Information Modelling (BIM) is a global phenomenon which is gaining significant momentum across the world. Currently there is little information on how to realise and monitor benefits from implementing BIM across the life-cycle of a built environment asset. This book provides a practical and strategic framework to realise value from implementing BIM by adapting Benefit Realisation Management theory. It presents an approach for practitioners aiming to implement BIM across the life-cycle of built environment assets, including both buildings and infrastructure. Additionally, the book features: wide-ranging information about BIM, the challenges of monitoring progress towards benefit goals and the greater context of implementation; a set of dictionaries that illustrate: how benefits can be achieved, what the benefit flows are and the enabling tools and processes that contribute to achieving and maximising them; a suite of measures that can serve to monitor progress with examples of how they have been used to measure benefits from BIM; real-world examples from across the world and life-cycle phases that show how these benefits can be achieved; and information on international maturity and competency measures to complement the value realisation framework. Including a blend of academic and industry input, this book has been developed in close collaborative consultation with industry, government and international research organisations and could be used for industry courses on BIM benefits and implementation for asset management or by universities that teach BIM-related courses.

**Proceedings of the Seventh International Conference on Management Science and Engineering Management** Jiuping Xu 2013-09-20 This book presents the proceedings of the Seventh International Conference on Management Science and Engineering Management (ICMSEM2013) held from November 7 to 9, 2013 at Drexel University, Philadelphia, Pennsylvania, USA and organized by the International Society of Management Science and Engineering Management, Sichuan University (Chengdu, China) and Drexel University (Philadelphia, Pennsylvania, USA). The goals of the Conference are to foster international research collaborations in Management Science and Engineering Management as well as to provide a forum to present current research findings. The selected papers cover various areas in management science and engineering management, such as Decision Support Systems, Multi-Objective Decisions, Uncertain Decisions, Computational Mathematics, Information Systems, Logistics and Supply Chain Management, Relationship
Management, Scheduling and Control, Data Warehousing and Data Mining, Electronic Commerce, Neural Networks, Stochastic Models and Simulation, Fuzzy Programming, Heuristics Algorithms, Risk Control, Organizational Behavior, Green Supply Chains, and Carbon Credits. The proceedings introduce readers to novel ideas on and different problem-solving methods in Management Science and Engineering Management. We selected excellent papers from all over the world, integrating their expertise and ideas in order to improve research on Management Science and Engineering Management.

**Creative Construction** Gary P. Pisano 2019-01-15
This myth-busting book shows large companies can construct a strategy, system, and culture of innovation that creates sustained growth. Every company wants to grow, and the most proven way is through innovation. The conventional wisdom is that only disruptive, nimble startups can innovate; once a business gets bigger and more complex corporate arteriosclerosis sets in. Gary Pisano's remarkable research conducted over three decades, and his extraordinary on-the-ground experience with big companies and fast-growing ones that have moved beyond the startup stage, provides new thinking about how the scale of bigger companies can be leveraged for advantage in innovation. He begins with the simply reality that bigger companies are, well, different. Demanding that they "be like Uber" is no more realistic than commanding your dog to speak French. Bigger companies are complex. They need to sustain revenue streams from existing businesses, and deal with Wall Street's demands. These organizations require a different set of management practices and approaches—a discipline focused on the strategies, systems and culture for taking their companies to the next level. Big can be beautiful, but it requires creative construction by leaders to avoid the creative destruction that is all-too-often the fate of too many.

**Sustainable Buildings and Infrastructure** Annie R. Pearce 2013-07-03
Construction is one of the biggest industries in the world, providing necessary facilities for human prosperity ranging from the homes in which we live to the highways we drive, the power plants that provide energy for our daily activities, and the very infrastructure on which human society is built. The construction sector, including the building sector, has among the largest potential of any industry to contribute to the reduction of greenhouse gas emissions. This ambitious and comprehensive textbook covers the concept of embedding sustainability across all construction activities. It is aimed at students taking courses in construction management and the built environment. Written in a lively and engaging style the book sets out the practical requirements of making the transition to a sustainable construction industry by 2020. Case studies are included throughout making the book both a core reference and a practical guide.

**Decision-making on Mega-projects** Hugo Priemus 2008-01-01
It will be useful for those experienced and senior professionals who are charged with authorizing and controlling projects. Recommended. P.F. Rad, Choice
Building on the seminal work of Bent Flyvbjerg, this book is a collection of expert contributions that will prove essential to anyone wanting to understand why mega-projects go wrong and how they can be made to work better. Professor Sir Peter Hall, University College London, UK
This book offers a refreshing and fascinating look at mega-projects from the perspective of public evaluation and planning. With the changing role of the public sector in planning and implementing large-scale projects and a subsequent strong emergence of private public modes of operation, mega-projects have become a problematic phenomenon. This volume is a major source of information and reference. It provides the reader with unique insights and caveats in mega-projects planning. Peter Nijkamp, VU University Amsterdam, The Netherlands
This book enlarges the understanding of decision-making on mega-projects and suggest recommendations for a more effective, efficient and democratic approach. Authors from different scientific disciplines address various aspects of the decision-making process, such as management characteristics and cost benefit analysis, planning and innovation and competition and institutions. The subject matter is highly diverse, but certain questions remain at the forefront. For example, how do we deal with protracted...
preparation processes, how do we tackle risks and uncertainties, and how can we best divide the risks and responsibilities among the private and public players throughout the different phases of the project? Presenting a state-of-the-art overview, based on experiences and visions of authors from Europe and North America, this unique book will be of interest to practitioners of large-scale project management, politicians, public officials and private organisations involved in mega-project decision-making. It will also appeal to researchers, consultants and students dealing with substantial engineering projects, complex systems, project management and transport infrastructure.

Managing IT in Construction/Managing Construction for Tomorrow

Attila Dikbas

2009-09-15

Managing IT in Construction/Managing Construction for Tomorrow presents new developments in:-

Managing IT strategies - Model based management tools including building information modeling- Information and knowledge management- Communication and collaboration - Data acquisition and storage- Visualization and simulation- Architectural design and

ICTs for Mobile and Ubiquitous Urban Infrastructures: Surveillance, Locative Media and Global Networks

Firmino, Rodrigo J.

2010-10-31

“This book investigates how a shift to a completely urban global world woven together by ubiquitous and mobile ICTs changes the ontological meaning of space, and how the use of these technologies challenges the social and political construction of territories and the cultural appropriation of places”--Provided by publisher.