

Bim E Project Management

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Research Companion to Building Information Modeling - Lu, Weisheng

2022-03-22

Offering critical insights to the state-of-the-art in Building Information Modeling (BIM) research and development, this book outlines the prospects and challenges for the field in this era of digital revolution. Analysing the contributions of BIM across the construction industry, it provides a comprehensive survey of global BIM practices.

Procurement Systems - Derek Walker
2007-10-31

Innovative and novel, this book extends its coverage of the topic well beyond the conventional themes of project solicitation and proposal evaluation. Using extensive experience gathered over five years of teaching postgraduate courses, Walker and Rowlinson build on *Procurement Systems: A Guide to Best Practice in Construction* to present a comprehensive and coherent volume that is invaluable to the wider project management community. Cross-disciplinary in approach, coverage includes general historical issues and practical discussions of different types of projects and their procurement needs. It provides and discusses cutting-edge research and thought leadership on issues such as: stakeholder management ethics and corporate governance issues business strategy implications on procurement e-business innovation and organizational learning cultural dimensions human resource development. Helping readers to design project procurement implementation paths that deliver sustainable value, this

indispensable volume is key reading for students, lecturers and professionals working in or studying project management.

Architectural Draughtsmanship - Enrique Castaño Perea 2017-09-25

This is the proceedings of the XVI International Congress of Graphic Design in Architecture, EGA 2016, held in Alcalá de Henares, Spain, in June 2016. About 200 professionals and researchers from 18 different countries attended the Congress. This book will be of interest to researchers in the field of architecture and Engineering. Topics discussed are Innovations in Architecture, graphic design and architecture, history and heritage among others.

BIM Handbook - Rafael Sacks 2018-07-03

Discover BIM: A better way to build better buildings Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Third Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include: Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major construction clients,

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BIM standards and guides A discussion on how various professional roles have expanded through the widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Third Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

Code of Practice for Project Management for the Built Environment - CIOB (The

Chartered Institute of Building) 2022-06-27

The latest edition of the gold standard in construction project management references The newly revised sixth edition of the Code of Practice for Project Management for the Built Environment, prepared by the Chartered Institute of Building, is an up-to-date and comprehensive reference covering the principles and practice of project management in construction and development. This latest edition covers the new technologies, internationalisation, changing legislation, and productivity and profitability challenges faced by contractors which all combine to drive significant change in the industry. The book demonstrates the application of systematic documentation and quality control to complex construction projects and offers guidance and tools that link key principles to practical project management. It is worldwide in scope and widely recognised as the industry standard on the subject. With fresh discussions of quality assurance, global codes and standards, time management, joint ventures, contract compliance, supply chain integration, design digitisation, and much more, the Code of Practice for Project Management for the Built Environment also includes: A thorough introduction to project inception, feasibility analysis, strategy, and the pre-construction process Comprehensive explorations of the construction stage of projects, as well as testing and commissioning, and project completion,

handover, and operation Practical discussions of post-completion review A glossary and index of essential terms in construction project management Perfect for project management professionals in construction contracting and client organisations, Code of Practice for Project Management for the Built Environment will also earn a place in the libraries of undergraduate and postgraduate students of project management and construction-related subjects. The Chartered Institute of Building is the world's largest professional body for construction management and leadership. It has a Royal Charter to promote the science and practice of building and construction for the benefit of society. Members across the world work in the development, conservation, and improvement of the built environment.

eWork and eBusiness in Architecture, Engineering and Construction - Ardeshir

Mahdavi 2014-08-21

In the last two decades, the biannual ECPPM (European Conference on Product and Process Modelling) conference series has provided a unique platform for the presentation and discussion of the most recent advances with regard to the ICT (Information and Communication Technology) applications in the AEC/FM (Architecture, Engineering, Construction and

Building Information Modeling - Dana K. Smith 2009-04-13

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 life cycle 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 designed, built, operated, and maintained.

Project Management, Planning and Control - Albert Lester 2021-08-27

Covering the principles and techniques you need to successfully manage an engineering or technical project from start to finish, *Project Management, Planning and Control* is an established and widely recommended project management handbook. Building on its clear and detailed coverage of planning, scheduling and control, this eighth edition includes new case studies from industries including petrochemical and construction, as well as updates throughout to account for changes and best practice in governance and adjudication. It also now includes expanded coverage of AI, Big Data and sustainability. Ideal for those studying for Project Management Professional (PMP) qualifications, *Project Management, Planning and Control* is aligned with the latest Project Management Body of Knowledge (PMBOK) for both the Project Management Institute (PMI) and the Association of Project Management (APM) and includes questions and answers to help you test your understanding. Self-contained chapters make this ideal for quick reference. Provides case studies in project management from construction industries and AI. Updated and expanded to address new trends and

techniques related to governance, stakeholder management, BIM/VDC and Primavera P6.

Handbook of Research on Building Information Modeling and Construction Informatics: Concepts and Technologies - Underwood, Jason 2009-12-31

In recent years, building information modeling has become a very active research area of construction informatics with investigation of ICT use within construction industry processes and organizations. The *Handbook of Research on Building Information Modeling and Construction Informatics: Concepts and Technologies* addresses the problems related to information integration and interoperability throughout the lifecycle of a building, from feasibility and conceptual design through to demolition and recycling stages. Containing research from leading international experts, this *Handbook of Research* provides comprehensive coverage and definitions of the most important issues, concepts, trends, and technologies within the field.

Construction Quantity Surveying - Donald Towey 2012-05-18

The modern quantity surveyor (QS) plays a central role in the management of construction projects, although the exact nature of the role depends on who employs the QS. The Professional Quantity Surveyor engaged by the client and the Contractor's Quantity Surveyor have different roles to play in any construction project, with the contractor's QS role extending beyond measurement to the day-to-day running of building projects, estimating, contract administration and construction planning, as well as commercial, cost and project management. This book aims to provide readers with a practical guide into quantity surveying from a main contractor's perspective. Readers will acquire an understanding of the skills and competencies required by the contractor's quantity surveyor. Following a brief introduction, the book's early chapters cover measurement methodology and the contractor's business, with the rest of the chapters discussing commercial and contractual management of a construction project, including day-to-day running from commencement through to completion, in a highly practical way.

ICSBE 2018 - Ranjith Dissanayake 2019-08-06
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This book highlights current research and development in the area of sustainable built environments, currently one of the most important disciplines in civil engineering. It covers a range of topics, including sustainable construction and infrastructures, waste and wastewater management, enhanced sustainability, renewable and clean energy, sustainable materials and industrial ecology, building automation and virtual reality, and impact of climate change. As such it provides vital insights into responsible urbanization practices, and new tools and technologies in civil engineering that can mitigate the negative effects of the built environment.

Digital Transformation of the Design, Construction and Management Processes of the Built Environment - Bruno Daniotti
2019-01-01

This open access book focuses on the development of methods, interoperable and integrated ICT tools, and survey techniques for optimal management of the building process. The construction sector is facing an increasing demand for major innovations in terms of digital dematerialization and technologies such as the Internet of Things, big data, advanced manufacturing, robotics, 3D printing, blockchain technologies and artificial intelligence. The demand for simplification and transparency in information management and for the rationalization and optimization of very fragmented and splintered processes is a key driver for digitization. The book describes the contribution of the ABC Department of the Polytechnic University of Milan (Politecnico di Milano) to R&D activities regarding methods and ICT tools for the interoperable management of the different phases of the building process, including design, construction, and management. Informative case studies complement the theoretical discussion. The book will be of interest to all stakeholders in the building process - owners, designers, constructors, and faculty managers - as well as the research sector.

[Handbook of Research on Developing Smart Cities Based on Digital Twins](#) - Del Giudice, Matteo 2021-01-15

The advent of connected, smart technologies for the built environment may promise a significant

value that has to be reached to develop digital city models. At the international level, the role of digital twin is strictly related to massive amounts of data that need to be processed, which proposes several challenges in terms of digital technologies capability, computing, interoperability, simulation, calibration, and representation. In these terms, the development of 3D parametric models as digital twins to evaluate energy assessment of private and public buildings is considered one of the main challenges of the last years. The ability to gather, manage, and communicate contents related to energy saving in buildings for the development of smart cities must be considered a specificity in the age of connection to increase citizen awareness of these fields. The Handbook of Research on Developing Smart Cities Based on Digital Twins contains in-depth research focused on the description of methods, processes, and tools that can be adopted to achieve smart city goals. The book presents a valid medium for disseminating innovative data management methods related to smart city topics. While highlighting topics such as data visualization, a web-based ICT platform, and data-sharing methods, this book is ideally intended for researchers in the building industry, energy, and computer science fields; public administrators; building managers; and energy professionals along with practitioners, stakeholders, researchers, academicians, and students interested in the implementation of smart technologies for the built environment.

Industry 4.0 Solutions for Building Design and Construction - Farzad Pour Rahimian
2021-12-21

This book provides in-depth results and case studies in innovation from actual work undertaken in collaboration with industry partners in Architecture, Engineering, and Construction (AEC). Scientific advances and innovative technologies in the sector are key to shaping the changes emerging as a result of Industry 4.0. Mainstream Building Information Management (BIM) is seen as a vehicle for addressing issues such as industry fragmentation, value-driven solutions, decision-making, client engagement, and design/process flow; however, advanced simulation, computer vision, Internet of Things (IoT), blockchain,

machine learning, deep learning, and linked data all provide immense opportunities for dealing with these challenges and can provide evidenced-based innovative solutions not seen before. These technologies are perceived as the “true” enablers of future practice, but only recently has the AEC sector recognised terms such as “golden key” and “golden thread” as part of BIM processes and workflows. This book builds on the success of a number of initiatives and projects by the authors, which include seminal findings from the literature, research and development, and practice-based solutions produced for industry. It presents these findings through real projects and case studies developed by the authors and reports on how these technologies made a real-world impact. The chapters and cases in the book are developed around these overarching themes: • BIM and AEC Design and Optimisation: Application of Artificial Intelligence in Design • BIM and XR as Advanced Visualisation and Simulation Tools • Design Informatics and Advancements in BIM Authoring • Green Building Assessment: Emerging Design Support Tools • Computer Vision and Image Processing for Expediting Project Management and Operations • Blockchain, Big Data, and IoT for Facilitated Project Management • BIM Strategies and Leveraged Solutions This book is a timely and relevant synthesis of a number of cogent subjects underpinning the paradigm shift needed for the AEC industry and is essential reading for all involved in the sector. It is particularly suited for use in Masters-level programs in Architecture, Engineering, and Construction.

[eWork and eBusiness in Architecture, Engineering and Construction](#) - Jan Karlshoj
2018-09-03

[eWork and eBusiness in Architecture, Engineering and Construction 2018](#) collects the papers presented at the 12th European Conference on Product and Process Modelling (ECPPM 2018, Copenhagen, 12-14 September 2018). The contributions cover complementary thematic areas that hold great promise towards the advancement of research and technological development in the modelling of complex engineering systems, encompassing a substantial number of high quality contributions on a large spectrum of topics pertaining to ICT

deployment instances in AEC/FM, including: • Information and Knowledge Management • Construction Management • Description Logics and Ontology Application in AEC • Risk Management • 5D/nD Modelling, Simulation and Augmented Reality • Infrastructure Condition Assessment • Standardization of Data Structures • Regulatory and Legal Aspects • Multi-Model and distributed Data Management • System Identification • Industrialized Production, Smart Products and Services • Interoperability • Smart Cities • Sustainable Buildings and Urban Environments • Collaboration and Teamwork • BIM Implementation and Deployment • Building Performance Simulation • Intelligent Catalogues and Services eWork and eBusiness in Architecture, Engineering and Construction 2018 represents a rich and comprehensive resource for academics and researchers working in the interdisciplinary areas of information technology applications in architecture, engineering and construction. In the last two decades, the biennial ECPPM (European Conference on Product and Process Modelling) conference series, as the oldest BIM conference, has provided a unique platform for the presentation and discussion of the most recent advances with regard to the ICT (Information and Communication Technology) applications in the AEC/FM (Architecture, Engineering, Construction and Facilities Management) domains.

Advances in Construction ICT and e-Business - Srinath Perera 2017-05-08

This internationally conducted study of the latest construction industry practices addresses a broad range of Information and Communication Technology applications. Drawing on research conducted in the US and UK, this book presents the state of the art of various ebusiness processes, and examines BIM, virtual environments and mobile technologies. Innovation is a theme that runs throughout this book, so in addition to the direct impact of these new technical achievements, it also considers the management styles that helped them to emerge. Examples from industry are illustrated with case studies and presented alongside research from some of the best known academics in this field. This book is essential reading for all advanced students and

researchers interested in how ICT is changing construction management and the construction industry.

International Conference on Industrial Engineering and Management Science-2013

- Dr. X. Chen, 2013-10-16

ICIEMS 2013 is to provide a platform for researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results and development activities in Industrial Engineering and Management Science. This conference provides opportunities for the delegates to exchange new ideas and experiences face to face, to establish business or research relations and to find global partners for future collaboration.

Integrated Building Information Modelling -

Peng Wu 2017-07-10

Building information modelling (BIM) is a set of interacting policies, processes and technologies that generates a methodology to manage the essential building design and project data in digital format throughout the building's life cycle. BIM, makes explicit, the interdependency that exists between structure, architectural layout and mechanical, electrical and hydraulic services by technologically coupling project organizations together. Integrated Building Information Modelling is a handbook on BIM courses, standards and methods used in different regions (Including UK, Africa and Australia). 13 chapters outline essential information about integrated BIM practices such as the BIM in site layout plan, BIM in construction product management, building life cycle assessment, quantity surveying and BIM in hazardous gas monitoring projects while also presenting information about useful BIM tool and case studies. The book is a useful handbook for engineering management professionals and trainees involved in BIM practice.

Sustainability and Megaproject

Development - Franca Cantoni 2022-07-08

Megaprojects, also referred to in the literature as Large Engineering Projects or Major Projects, are generally defined as large-scale investment initiatives worth 1b€/€ or more and, facing similar problems independent of the country where they are implemented and the industry they belong to. The common feature of most

megaprojects is that they are difficult to design and manage so that their realization and completion is always extremely expensive, often over budget and delivery deadlines also are not met. In the worst-case scenario, they remain unfinished. This book, through its multidisciplinary approach, offers food for thought and alternative interpretations for the complex world of megaprojects. While much research has been conducted and differing approaches have been developed over the last 20 years, there is still a lot of debate surrounding the topic, and a holistic approach for effectively managing these initiatives is still missing. What is clear to all researchers and experts in the field is that a traditional-linear management approach is simply not sufficient, as at many stages of a megaproject, iterative and feedback effect occurs due to stakeholder involvement and increasing and continuous interaction between them. The book promotes the debate among all categories of stakeholders involved in the megaproject's supply chain, in order to increase the awareness of complex phenomena relating to the critical issues and common problems they face, all over the world, and to seek performance improvement across the whole life cycle of a megaproject, including the selection, design, construction, operation and de-commissioning. The multidisciplinary approach cultivated in the book conveys an innovative way to study megaprojects and their inherent complexities.

The BIM-Manager - Mark Baldwin 2019-06-13

Der BIM Manager jetzt auch in englischer Übersetzung: Im Zentrum der Ausführungen steht die erfolgreiche Einführung von BIM im eigenen Unternehmen. Der Autor erklärt die wichtigsten Begriffe und erläutert anschaulich Methoden (Open BIM, Collaborative BIM), Technologien, Projektanforderungen und Verantwortlichkeiten. Die wesentlichen Grundsätze werden anhand konkreter Projektbeispiele dargestellt. Der Leser erhält viele hilfreiche Tipps für die praktische Anwendung. "Der BIM-Manager" eignet sich besonders für Geschäftsführer, Abteilungsleiter, BIM-Anwender, BIM-Manager sowie für Architekten und Bauingenieure.

Building Information Modeling - Raymond Issa 2015-06

The Indian Infrastructure Body of Knowledge: Volume 2 - Quality Council of India

Product Lifecycle Management to Support Industry 4.0 - Paolo Chiabert 2018-12-08

This book constitutes the refereed post-conference proceedings of the 15th IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2018, held in Turin, Spain, in July 2018. The 72 revised full papers presented were carefully reviewed and selected from 82 submissions. The papers are organized in the following topical sections: building information modeling; collaborative environments and new product development; PLM for digital factories and cyber physical systems; ontologies and data models; education in the field of industry 4.0; product-service systems and smart products; lean organization for industry 4.0; knowledge management and information sharing; PLM infrastructure and implementation; PLM maturity, implementation and adoption; 3D printing and additive manufacturing; and modular design and products and configuration and change management.

Science and Digital Technology for Cultural Heritage - Interdisciplinary Approach to Diagnosis, Vulnerability, Risk Assessment and Graphic Information Models - Pilar Ortiz Calderón 2019-11-28

The scientific and technological advances that influence the protection of cultural heritage are developing at an ever-increasing pace. Systems to explore, research and analyse their materiality, to control the different scopes, or to represent and model them have reached an unprecedented dimension in recent decades. The Network of Science and Technology for the Conservation of Cultural Heritage aims to promote collaboration between the agents of these systems, in order to facilitate the sharing of experiences and to foster technology transfer, with the common goal of contributing to the conservation of Cultural Heritage. In the context of the TechnoHeritage Network, the fourth edition of the International Congress on Science and Technology for the Conservation of Cultural Heritage was held March 26-30, 2019, in Seville, Spain. This Congress was an international meeting of researchers and specialists from

multiple areas, whose line of work is the knowledge and conservation of Cultural Heritage. Among all the topics discussed, the role and impact of digital technologies for the knowledge, maintenance, management and dissemination of cultural heritage should be highlighted. Digital media modify the way of understanding this heritage, of perceiving it and transmitting it, and offer a new horizon of strategies to make decision-making more sustainable over time.

Handbook of Research on Implementing Digital Reality and Interactive Technologies to Achieve Society 5.0 - Ugliotti, Francesca Maria 2022-06-30

Research on digital reality has been extensive in recent years, covering a wide range of topics and leading to new ways to approach and deal with complex situations. Within the Society 5.0 paradigm, people and machines establish a positive relationship to find solutions for social aspects and problems. This perspective establishes a strong interconnection between physical and virtual space, making the user an active player for better life and society. In these terms, digital systems and virtual and augmented reality technologies enable multi-dimensional scenarios and additional levels of interdisciplinary collaboration to create a highly inclusive communication network and social framework. The Handbook of Research on Implementing Digital Reality and Interactive Technologies to Achieve Society 5.0 provides an overview of methods, processes, and tools adopted to achieve super-smart society needs by exploiting digital reality and interactive technologies. It includes case studies that illustrate applications that place people's quality of life at the center of the digitalization process, accessing and managing different information and data domains. Covering topics such as cultural heritage, interactive learning, and virtual participation, this major reference work is a comprehensive resource for business executives and managers, IT managers, government officials, community leaders, arts and performance organizers, healthcare administrators and professionals, faculty and administrators of both K-12 and higher education, students of higher education, researchers, and academicians.

Project Management and Engineering

Research - José Luis Ayuso Muñoz 2017-03-06

This book gathers the best papers presented at the 19th International Congress on Project Management and Engineering, which was held in Granada, Spain in July 2015. It covers a range of project management and engineering contexts, including: civil engineering and urban planning, product and process engineering, environmental engineering, energy efficiency and renewable energies, rural development, information and communication technologies, safety, labour risks and ergonomics, and training in project engineering. Project management and engineering is taking on increasing importance as projects continue to grow in size, more stakeholders become involved, and environmental, organisational and technological issues become more complex. As such, this book offers a valuable resource for all professionals seeking the latest material on the changing face of project management.

31. Forum Bauinformatik - Sternal, Maximilian 2019-09-17

Das Forum Bauinformatik steht unter dem Motto „von jungen Forschenden für junge Forschende“. Es bietet jungen Wissenschaftlerinnen und Wissenschaftlern sowie interessierten Studierenden die Möglichkeit, ihre Forschungsarbeiten zu präsentieren, Problemstellungen fachspezifisch zu diskutieren und sich ganz allgemein über den neusten Stand der Forschung zu informieren. Zudem ergibt sich dadurch eine ausgezeichnete Gelegenheit, in die wissenschaftliche Gemeinschaft im Bereich der Bauinformatik einzusteigen und Kontakte zu anderen Forschenden zu knüpfen. According to the motto “from young researchers for young researchers” the Forum Bauinformatik offers researchers as well as interested undergraduates the opportunity to present their research work, to discuss discipline-specific problems and to catch up to the current state in research. Furthermore, it gives an excellent chance to get in touch with the scientific community in the field of Computing in Civil Engineering and socialize with other researchers

Construction Project Management - Peter Fewings 2019-03-21

Construction Project Management: An

Integrated Approach is a management approach to leading projects and the effective choice and use of project management tools and techniques. It seeks to push the boundaries of project management to take on board future needs and user issues. Integration of the construction project, meaning closer relations between the project team, the supply chain and the client, is long overdue; however, despite some signs of growth in this area, the industry nonetheless remains fragmented in its approach. The role of the project manager is to integrate diverse interests and unify objectives to achieve a common goal. This has now broadened to include a responsibility, on the parts of both client and team, to ensure that construction addresses current and future societal needs. From an economic perspective, a great deal of waste is connected with conflict, thus a holistic approach that increases the efficiency and effectiveness of the task at hand will inject energy into project management. This third edition now takes on board the impact of technology in building information modelling and other digitised technologies such as artificial intelligence. Together, they open up avenues for more direct and incisive action to test creative design, manufacture directly and communicate spontaneously and intuitively. In time, such technologies will change the role of project managers but will never take away their responsibility to be passionate about construction and to integrate the team. A new chapter has been added that considers future societal needs. This edition is also reordered to make the project life cycle and process chapters clearer. This book combines best practice in construction with the theories underpinning project management and presents a wealth of practical case studies – many new. It focuses on all construction disciplines that may manage projects. The book is of unique value to students in the later years of undergraduate courses and those on specialist postgraduate courses in project management and also for practitioners in all disciplines and clients who have experienced the frustration caused by the fragmentation of construction projects.

The BIM-Manager - Mark Baldwin 2019-06-13

Der BIM Manager jetzt auch in englischer

Übersetzung: Im Zentrum der Ausführungen

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steht die erfolgreiche Einführung von BIM im eigenen Unternehmen. Der Autor erklärt die wichtigsten Begriffe und erläutert anschaulich Methoden (Open BIM, Collaborative BIM), Technologien, Projektanforderungen und Verantwortlichkeiten. Die wesentlichen Grundsätze werden anhand konkreter Projektbeispiele dargestellt. Der Leser erhält viele hilfreiche Tipps für die praktische Anwendung. "Der BIM-Manager" eignet sich besonders für Geschäftsführer, Abteilungsleiter, BIM-Anwender, BIM-Manager sowie für Architekten und Bauingenieure.

[BIM e project Management Guida pratica alla progettazione integrata](#) - Andrea Ferrara
2019-06-28T00:00:00+02:00

Dopo l'entrata in vigore del nuovo Codice dei Contratti Pubblici, il BIM è divenuto obbligatorio. Questo testo su BIM e Project Management descrive gli strumenti da adottare nella progettazione, costruzione e gestione di un'opera mediante le tecniche e le procedure del BIM. I vantaggi operativi ed economici che si realizzano grazie alla progettazione integrata sostenibile costituiscono una grande risorsa per aziende e Pubbliche Amministrazioni. Il mondo delle costruzioni assiste oggi ad un profondo e rivoluzionario cambiamento caratterizzato dall'implementazione del Building Information Modeling (BIM) negli asset dei processi organizzativi. In questo scenario il presente testo, rivolto ai professionisti e studiosi del settore, descrive gli strumenti da adottare nella progettazione, costruzione e gestione di un'opera, sostenendo l'innovazione come opportunità per lo sviluppo del processo produttivo. Attraverso la presentazione di un caso di studio, gli autori approfondiscono le tecniche e le procedure del BIM e Project Management: dalla pianificazione del progetto alla modellazione architettonica, strutturale e impiantistica; dall'analisi di tempi e costi delle lavorazioni alle attività di gestione del costruito. Analizzando i vantaggi operativi ed economici propri della progettazione integrata, il libro BIM e Project Management si sofferma sui meccanismi di interoperabilità e condivisione dei dati, nonché sulla necessità di adeguare i flussi di lavoro interni alle aziende e alle Pubbliche Amministrazioni, a seguito del recepimento della Direttiva 2014/24/UE e della revisione del

Codice dei Contratti Pubblici.

Application of Intelligent Systems in Multi-modal Information Analytics - Vijayan Sugumaran 2020-07-20

This book presents the proceedings of the 2020 International Conference on Intelligent Systems Applications in Multi-modal Information Analytics, held in Changzhou, China, on June 18-19, 2020. It provides comprehensive coverage of the latest advances and trends in information technology, science and engineering. It addresses a number of broad themes, including data mining, multi-modal informatics, agent-based and multi-agent systems for health and education informatics, which inspire the development of intelligent information technologies. The contributions cover a wide range of topics such as AI applications and innovations in health and education informatics; data and knowledge management; multi-modal application management; and web/social media mining for multi-modal informatics. Outlining promising future research directions, the book is a valuable resource for students, researchers and professionals, and a useful reference guide for newcomers to the field.

International Construction Management - Igor Martek 2022-02-08

This book tells you everything you need to know about international construction: the companies, their markets, the types of projects they build, how they compete and operate and how it affects us all. It paints a comprehensive portrait of an overlooked global business that generates a major portion of the GDP in every developed nation. As with any mature sector, countries make efforts to export their expertise, but the competition in construction is fierce, and the risks are many. Only the leanest and meanest survive. What, then, does it take to win? Most writing on construction focuses at the project-management level or even more narrowly at the level of technical performance. This book presents the big picture; it tells you what successful international construction companies do to stay in the game and thrive. The book examines international construction through three lenses. The first is theory. The body of existing knowledge on construction is here brought together, condensed and explained. The

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second are the actors. The companies that lead the way in global construction are showcased, and the features that make countries desirable hosts are appraised. Finally, what is it that firms actually do? This last part delves into the various strategic approaches taken by 60 construction firms in carving out and defending an overseas market niche. The insights provide guidance on how global construction companies develop competitive advantage and stay resilient in the face of a mercurial global economy. These lessons will be of interest to the student and manager alike.

Artificial Intelligence in Project Management and Making Decisions - Pedro Y. Piñero Pérez
This book presents new developments and advances in the theory, applications, and design methods of computational intelligence, integrated in various areas of project management and BIM environments. The chapters of the book span different soft computing techniques, such as: linguistic data summarization, fuzzy systems, evolutionary algorithms, estimation distribution algorithms, computing with words, augmented reality, and hybrid intelligence systems. In addition, different applications of the neutrosophic theory are presented for the treatment of uncertainty and indeterminacy in decision-making processes. Several chapters of the book constitute systematic reviews, useful for future investigations in the following topics: linguistic summarization of data, augmented reality, and the development of BIM technologies. It is a particularly interesting book for engineers, researchers, specialists, teachers, and students related to project management and the development of BIM technologies.

BIM Teaching and Learning Handbook - M. Reza Hosseini 2021-08-10

This book is the essential guide to the pedagogical and industry-inspired considerations that must shape how BIM is taught and learned. It will help academics and professional educators to develop programmes that meet the competences required by professional bodies and prepare both graduates and existing practitioners to advance the industry towards higher efficiency and quality. To date, systematic efforts to integrate pedagogical considerations into the way BIM is

learned and taught remain non-existent. This book lays the foundation for forming a benchmark around which such an effort is made. It offers principles, best practices, and expected outcomes necessary to BIM curriculum and teaching development for construction-related programs across universities and professional training programmes. The aim of the book is to: Highlight BIM skill requirements, threshold concepts, and dimensions for practice; Showcase and introduce tried-and-tested practices and lessons learned in developing BIM-related curricula from leading educators; Recognise and introduce the baseline requirements for BIM education from a pedagogical perspective; Explore the challenges, as well as remedial solutions, pertaining to BIM education at tertiary education; Form a comprehensive point of reference, covering the essential concepts of BIM, for students; Promote and integrate pedagogical consideration into BIM education. This book is essential reading for anyone involved in BIM education, digital construction, architecture, and engineering, and for professionals looking for guidance on what the industry expects when it comes to BIM competency.

Building Information Modeling - André Borrmann 2018-09-19

Building Information Modeling (BIM) refers to the consistent and continuous use of digital information throughout the entire lifecycle of a built facility, including its design, construction and operation. In order to exploit BIM methods to their full potential, a fundamental grasp of their key principles and applications is essential. Accordingly, this book combines discussions of theoretical foundations with reports from the industry on currently applied best practices. The book's content is divided into six parts: Part I discusses the technological basics of BIM and addresses computational methods for the geometric and semantic modeling of buildings, as well as methods for process modeling. Next, Part II covers the important aspect of the interoperability of BIM software products and describes in detail the standardized data format Industry Foundation Classes. It presents the different classification systems, discusses the data format CityGML for describing 3D city models and COBie for handing over data to

clients, and also provides an overview of BIM programming tools and interfaces. Part III is dedicated to the philosophy, organization and technical implementation of BIM-based collaboration, and discusses the impact on legal issues including construction contracts. In turn, Part IV covers a wide range of BIM use cases in the different lifecycle phases of a built facility, including the use of BIM for design coordination, structural analysis, energy analysis, code compliance checking, quantity take-off, prefabrication, progress monitoring and operation. In Part V, a number of design and construction companies report on the current state of BIM adoption in connection with actual BIM projects, and discuss the approach pursued for the shift toward BIM, including the hurdles taken. Lastly, Part VI summarizes the book's content and provides an outlook on future developments. The book was written both for professionals using or programming such tools, and for students in Architecture and Construction Engineering programs.

Boosting Collaborative Networks 4.0 - Luis M. Camarinha-Matos 2020-11-16

This book constitutes the refereed proceedings of the 21st IFIP WG 5.5 Working Conference on Virtual Enterprises, PRO-VE 2020, held in Valencia, Spain, in November 2020. The conference was held virtually. The 53 full papers were carefully reviewed and selected from 135 submissions. They provide a comprehensive overview of major challenges and recent advances in various domains related to the digital transformation and collaborative networks and their applications with a strong focus on the following areas related to the main theme of the conference: collaborative business ecosystems; collaborative business models; collaboration platform; data and knowledge services; blockchain and knowledge graphs; maintenance, compliance and liability; digital transformation; skills for organizations of the future; collaboration in open innovation; collaboration in supply chain; simulation and analysis in collaborative systems; product and service systems; collaboration impacts; boosting sustainability through collaboration in Agri-food 4.0; digital innovation hubs for digitalizing European industry; and collaborative networks for health and wellness data management.

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.

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 2021 4th International

Conference on Civil Engineering and

Architecture - Thomas Hyun-Koo Kang 2022

This book states that the proceedings gathers selected papers from 2021 4th International Conference on Civil Engineering and Architecture (ICCEA 2021), which was taken place in Seoul, South Korea, during July 10-12, 2021. The conference is the premier forum for the presentation of new advances and research results in the fields of theoretical, experimental, and practical civil engineering and architecture. And this proceedings from the conference mainly discusses architectural design and project management, environmental protection and spatial planning, design and analysis of building materials, and structural engineering and safety. And these materials can be useful and valuable sources for researchers and professionals working in the field of civil engineering and architecture.

Bim e project management - Andrea Ferrara
2016