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Understanding BIM Woodhead Publishing

The bright future and exciting possibilities of BIM Many architects and engineers regard BIM as a disruptive force, changing the way building professionals design, build, and ultimately manage a built structure. With its emphasis on continuing advances in BIM research, teaching, and practice, *Building Information Modeling: BIM in Current and Future Practice* encourages readers to transform disruption to opportunity and challenges them to reconsider their preconceptions about BIM. Thought leaders from universities and professional practice composed essays exploring BIM's potential to improve the products and processes of architectural design including the structure and content of the tools themselves. These authors provide insights for assessing the current practice and research directions of BIM and speculate about its future. The twenty-six chapters are thematically grouped in six sections that present complementary and sometimes incompatible positions: Design Thinking and BIM BIM Analytics Comprehensive BIM Reasoning with BIM Professional BIM BIM Speculations Together, these authors provide stimulating ideas regarding new directions in building information modeling. *Industry 4.0 for the Built Environment* Bookman Editora

O BIM oferece uma nova abordagem para design, construção e gerenciamento de instalações. Nela, a representação digital do produto e do processo de construção são usados para facilitar o intercâmbio e a interoperabilidade de informações. O BIM está mudando a aparência das construções, a maneira como funcionam, são projetadas e executadas. Este livro é uma fonte de consulta completa, consolidada e independente, capaz de ajudar alunos e profissionais do setor da construção civil a aprenderem sobre essa incrível abordagem.

Handbook of Research on Building Information Modeling and Construction Informatics: Concepts and Technologies IGI Global

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, 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.

BIM for Facility Managers Springer Nature

At the beginning of the Fourth Industrial Revolution, the advent of digitalization, innovative technologies and materials, and new construction techniques have begun transforming the way that infrastructure, real estate, and other built assets can be designed, constructed, and operated in order to create a more attractive, energy-efficient, comfortable, affordable, safe, and sustainable built environment. Developments in materials and cutting-edge technologies (such as artificial intelligence, robotics, nanotechnology, 3D printing, and biotechnology) have finally started to move the construction towards a new era. Massive changes are occurring as a result of the possibilities created by big data and the Internet of Things, along with the technological advances that are driving down the cost of sensors, data storage, and computer services. *Construction 4.0: Advanced Technology, Tools and Materials for the Digital Transformation of the Construction Industry* presents a thorough review of developments in materials, emerging trends, cutting-edge technologies, and strategies in the fields of smart building design, construction, and operation, providing the reader with a comprehensive guideline on how to exploit the new possibilities offered by the digital revolution. It will be an essential reference resource for academic researchers, material scientists, and civil engineers, undergraduate and graduate students, and other professionals working in the fields of smart eco-efficient construction and cutting-edge technologies applied to construction. Features discussions on how nanomaterials, bio-based materials, and recycled materials are applied in the construction of buildings Analyzes the lifecycle of materials, buildings and design and construction operations Covers new methodologies and construction processes Provides case studies on cutting-edge digital technology such as AI and machine learning Examines all aspects of sustainability, including end-of-life of buildings

Innovation in Construction Routledge

This book tackles the complex topic of implementing innovation and the successful application of advanced technology in the construction industry. It provides a practical guide for the transformation of the industry by detailing appropriate and effective implementation methods, required skill sets and

structural changes necessary to facilitate the practical and innovative application of technology. The construction industry is behind other industries in its level of innovation and adoption of technology, and is of critical importance to many of today's global challenges, such as climate change, global warming and resource scarcity. There is therefore a need for smarter and more efficient ways of managing available resources. This book elaborates on how the innovative application of technology could offer hope for the construction industry in its imperative to rise to current and future global challenges. It includes the real-world case studies of innovative projects that go beyond the current state-of-the-art academic research, and have improved productivity, quality and performance in the construction sector. This book provides readers from both industrial and academic backgrounds with a comprehensive guide on transforming the construction industry with the efficient and effective implementation of technologies and modern methods of construction.

Innovative Tools and Methods Using BIM for an Efficient Renovation in Buildings Universitätsverlag der TU Berlin

The book reports on the great improvements in the information and knowledge management due to the digitalization of the building sector. By summarizing several research projects addressing the implementation of BIM in different stages of the building process, and the definition of standards at Italian, European and international levels for managing information relying on the implementation of BIM-based processes, it showcases the efforts, especially within the Italian building sector, to build a standardized structure of information and develop tools for collecting, sharing and exchanging information between stakeholders involved in different stages of the building process, so as to enhance the storage, traceability, usability and re-usability of information management. Further, it presents an enhanced use of information that relies on the adoption of the standardized structure of information, and proposes dedicated applications for automating the process of information fruition. Lastly, it features a digital platform for different stakeholders in the building sector, such as manufacturers, producers and construction companies.

BIM Development and Trends in Developing Countries: Case Studies Springer Nature

Building Information Modelling (BIM) harnesses digital technologies to unlock more efficient methods of designing, creating and maintaining built environment assets, so the Construction Manager's BIM Handbook ensures the reader understands what BIM is, what the UK strategy is and what it means for key roles in the construction team. ensure that all readers understand what BIM and are fully aware of the implications of BIM for them and their organisations provides concise summaries of key aspects of BIM ensure that all readers can begin to adopt this approach in future projects includes industry case studies illustrating the use of BIM on large and small projects

The BIM Manager's Handbook, Part 3 Routledge

This open access book describes a BIM-based toolkit that has been developed according to the latest research activities on building information modelling and semantic interoperability to optimize the building process. It highlights the impacts of using such new tools to fast renovation activities starting from the decision-making and design stages to the construction site management with the possibility to monitor occupants' and owners' feedback during the realization process. In this process, a framework has been developed and implemented to allow stakeholders involved in a renovation project to efficiently compile, maintain, and add data about (i) building elements, (ii)

building services systems, (iii) tenants, operators, and owners of the building, and (iv) current and predicted performance of the building from the various data sources available. The framework applies and specializes the existing practices in the Semantic Web, Linked Data, and ontology domain to the management of renovation projects. It has been designed to be open so that any system which implements the required functions and uses the specified conventions will be able to achieve semantic interoperability with other framework-compliant systems in the renovation domain. Finally, this book represents the validation process of the toolkit that has been held in three demo sites: a social housing building in Italy and two private residential buildings in Poland and Finland. The outcome shows that the toolkit facilitates the renovation process with relevant reductions of time, costs, and energy consumption and that the inhabitants can take advantage of the increase in building performances, quality, and comfort.

Maintenance, Safety, Risk, Management and Life-Cycle Performance of Bridges Beuth Verlag GmbH

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.

BIM Routledge

With the UK government's 2016 BIM threshold approaching, support for small organisations on interpreting, filtering and applying BIM protocols and standards is urgently required. Many small UK construction industry supply chain firms are uncertain about what Level 2 BIM involves and are unsure about taking first steps towards having BIM capability. As digitisation, increasingly impacts on work practices, *Getting to Grips with BIM* offers an insight into an industry in change supplemented by practical guidance on managing the transition towards more widespread and integrated use of digital tools to manage the design, construction and whole life use of buildings.

Advances in Building Information Modeling CRC Press

The narrative about the project management profession is dominated by discussions of "success" and "failure" along with the need to improve the competence of project managers. As a result, the community is engaged in a fruitless search for a combination of tools, techniques and practices that will result in desired outcomes for funders. While the profession has made recent attempts to incorporate environmental and social

responsibility, these areas are still framed within the existing discourses of project delivery. The De Gruyter Handbook of Responsible Project Management seeks to rethink project management by integrating contributions from the emerging responsible Management domain. This handbook will explore the nature and extent of project professionals' responsibility at different levels – individual, team, organizational and societal – along with the implications for education, research and practice. The De Gruyter Handbook of Responsible Project Management offers cutting-edge insights into the field of project management. It is an essential reference for scholars and practitioners.

The BIM Manager's Handbook, Part 3 CRC Press

This book gathers the latest advances, innovations, and applications in the field of information technology in civil and building engineering, presented at the 18th International Conference on Computing in Civil and Building Engineering (ICCCBE), São Paulo, Brazil, August 18-20, 2020. It covers highly diverse topics such as BIM, construction information modeling, knowledge management, GIS, GPS, laser scanning, sensors, monitoring, VR/AR, computer-aided construction, product and process modeling, big data and IoT, cooperative design, mobile computing, simulation, structural health monitoring, computer-aided structural control and analysis, ICT in geotechnical engineering, computational mechanics, asset management, maintenance, urban planning, facility management, and smart cities. Written by leading researchers and engineers, and selected by means of a rigorous international peer-review process, the contributions highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

EG-ICE 2020 Workshop on Intelligent Computing in Engineering Springer Nature

ePart 3: Focus on Technology: How do you ensure your organisation gets the most out of the BIM technology available? Dedicated to the main technology-related aspects of a BIM Manager's role, this ePart explains how to establish and manage an organisation's BIM-related tool-ecology and how to use BIM in order to link from design to fabrication. What do BIM Managers need to do in order ensure their teams use the right tools for the various tasks in design, construction and beyond? How do they connect them and how do they keep up with updates in this rapidly changing environment. This ePart highlights the challenges BIM Managers need to overcome in software, hardware and network selection. It also brings into focus the opportunities BIM Managers face in the changing context of BIM in the Cloud. Extending beyond technical know-how, it also offers advice on how to create a successful interface between the BIM Manager and the IT specialist(s). Obook ISBN: 9781118987803; ePub ISBN: 9781118987773; ePDF ISBN:9781118987766; published August 2015

Increasing Autodesk Revit Productivity for BIM Projects Beuth Verlag

Maintenance, Safety, Risk, Management and Life-Cycle Performance of Bridges contains lectures and papers presented at the Ninth International Conference on Bridge Maintenance, Safety and Management (IABMAS 2018), held in Melbourne, Australia, 9-13 July 2018. This volume consists of a book of extended abstracts and a USB card containing the full papers of 393 contributions presented at IABMAS 2018, including the T.Y. Lin Lecture, 10 Keynote Lectures, and 382 technical papers from 40 countries. The contributions presented at IABMAS 2018 deal with the state of the art as well as emerging concepts and innovative applications related to the main aspects of bridge maintenance, safety, risk, management and life-cycle performance. Major topics include: new design methods, bridge

codes, heavy vehicle and load models, bridge management systems, prediction of future traffic models, service life prediction, residual service life, sustainability and life-cycle assessments, maintenance strategies, bridge diagnostics, health monitoring, non-destructive testing, field testing, safety and serviceability, assessment and evaluation, damage identification, deterioration modelling, repair and retrofitting strategies, bridge reliability, fatigue and corrosion, extreme loads, advanced experimental simulations, and advanced computer simulations, among others. This volume provides both an up-to-date overview of the field of bridge engineering and significant contributions to the process of more rational decision-making on bridge maintenance, safety, risk, management and life-cycle performance of bridges for the purpose of enhancing the welfare of society. The Editors hope that these Proceedings will serve as a valuable reference to all concerned with bridge structure and infrastructure systems, including students, researchers and engineers from all areas of bridge engineering.

Manual de BIM - 3.ed. Routledge

This book gathers the best papers presented at the International Congress on Project Management and Engineering, in its 2017 and 2018 editions, which were held in Cádiz and Madrid, Spain. It covers a range of topic areas, including civil engineering and urban planning, product and process engineering, environmental engineering, energy efficiency and renewable energies, rural development, information and communication technologies, and risk management and safety.

Proceedings of the 18th International Conference on Computing in Civil and Building Engineering John Wiley & Sons

The 27th EG-ICE International Workshop 2020 brings together international experts working at the interface between advanced computing and modern engineering challenges. Many engineering tasks require open-world resolutions to support multi-actor collaboration, coping with approximate models, providing effective engineer-computer interaction, search in multi-dimensional solution spaces, accommodating uncertainty, including specialist domain knowledge, performing sensor-data interpretation and dealing with incomplete knowledge. While results from computer science provide much initial support for resolution, adaptation is unavoidable and most importantly, feedback from addressing engineering challenges drives fundamental computer-science research. Competence and knowledge transfer goes both ways. Der 27. Internationale EG-ICE Workshop 2020 bringt internationale Experten zusammen, die an der Schnittstelle zwischen fortgeschrittener Datenverarbeitung und modernen technischen Herausforderungen arbeiten. Viele ingenieurwissenschaftliche Aufgaben erfordern Open-World-Resolutionen, um die Zusammenarbeit mehrerer Akteure zu unterstützen, mit approximativen Modellen umzugehen, eine effektive Interaktion zwischen Ingenieur und Computer zu ermöglichen, in mehrdimensionalen Lösungsräumen zu suchen, Unsicherheiten zu berücksichtigen, einschließlich fachspezifischen Domänenwissens, Sensordateninterpretation durchzuführen und mit unvollständigem Wissen umzugehen. Während die Ergebnisse aus der Informatik anfänglich viel Unterstützung für die Lösung bieten, ist eine Anpassung unvermeidlich, und am wichtigsten ist, dass das Feedback aus der Bewältigung technischer Herausforderungen die computerwissenschaftliche Grundlagenforschung vorantreibt. Kompetenz und Wissenstransfer gehen in beide Richtungen.

Building Information Modeling Walter de Gruyter GmbH & Co KG

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.

Construction Manager's BIM Handbook John Wiley & Sons
A practical look at extending the value of Building Information Modeling (BIM) into facility management—from the world's largest international association for professional facility managers
Building owners and facility managers are discovering that Building Information Modeling (BIM) models of buildings are deep reservoirs of information that can provide valuable spatial and mechanical details on every aspect of a property. When used appropriately, this data can improve performance and save time, effort, and money in running and maintaining the building during its life cycle. It can also provide information for future modifications. For instance, a BIM could reveal everything from the manufacturer of a light fixture to its energy usage to maintenance instructions. BIM for Facility Managers explains how BIM can be linked to facility management (FM) systems to achieve very significant life-cycle advantages. It presents guidelines for using BIM in FM that have been developed by public and private owners such as the GSA. There is an extensive discussion of the legal and contractual issues involved in BIM/FM integration. It describes how COBie can be used to name, capture, and communicate FM-related data to downstream systems. There is also extensive discussion of commercial software tools that can be used to facilitate this integration. This book features six in-depth case studies that illustrate how BIM has been successfully integrated with facility management in real-life projects at: Texas A&M Health Science Center USC School of Cinematic Arts MathWork's new campus Xavier University State of Wisconsin

Facilities University of Chicago Library renovation BIM for Facility Managers is an indispensable resource for facility managers, building owners, and developers alike.

The BIM-Manager Routledge

This book contains the contributions presented at the 6th international KES conference on Smart Education and e-Learning (KES SEEL-2019), which took place at St. Julian's, Malta, June 17-19, 2019. It contains fifty-five high-quality peer-reviewed papers that are grouped into several interconnected parts: Part 1 - Smart Education, Part 2 - Smart e-Learning, Part 3 - Smart Pedagogy, Part 4 - Smart Education: Systems and Technology, Part 5 - Smart Education: Case Studies and Research, Part 6 - Students with Disabilities and Smart Education/University, and Part 7 - Mathematical Modelling of Smart Education and Economics of Smart University. Smart education and smart e-learning are emerging and rapidly growing areas with the potential to transform existing teaching strategies, learning environments, and educational activities and technology in the classroom. Smart education and smart e-learning focus on enabling instructors to develop new ways of achieving excellence in teaching in highly technological smart classrooms, and providing students with new opportunities to maximize their success and select the best options for their education, location and learning style, as well as the mode of content delivery. This book serves as a useful source of research data and valuable information on current research projects, best practices and case studies for faculty, scholars, Ph.D. students, administrators, and practitioners - all those who are interested in smart education and smart e-learning.

Stahlbau-Kalender 2019 - Schwerpunkt Springer

This book constitutes the refereed proceedings of the First Eurasian BIM Forum, EBF 2019, held in Istanbul, Turkey, in May 2019. The 16 full papers were carefully reviewed and selected from 44 submissions. The papers cover such topics as BIM adoption and implementation; BIM for project management; BIM for sustainability and performative design; BIM and facility management and infrastructural issues.