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Archicad 25, the silver anniversary edition of Graphisoft's flagship BIM authoring tool, is heavily focussed on customer requests ...

Graphisoft Archicad 25

It functions in part by Autodesk Revit, which is widely used in the design ... or two more floors in a building and not have the large per-square-footage cost. In multi-unit buildings it not ...

A New And Cost Effective Development Method

Higher values yield more photorealistic results, though this increases the render time per frame. Thus, the combination of render quality and capture settings can have a significant impact on the ...

Best Practices: Video Creation

Often the hardest part of the design process is to maintain a great concept - usually discovered through a sketch - when translating a design into programs such as Revit which are necessary in ...

Questo volume ha l'obiettivo di chiarire a studenti e professionisti come l'approccio BIM rivoluzioni non solo la concezione stessa del progetto, fornendo sempre più importanza alle informazioni correlate al bene edilizio, ma evidenzi inoltre un cambiamento metodologico, che sta modificando la gestione del processo, come sottolineato anche dalla normativa internazionale ISO 19650-1:2018. Per effettuare tale cambiamento, le stazioni appaltanti, in particolare quelle pubbliche, devono impostare una corretta gestione dell'intervento, tenendo a mente l'importanza dei dati nelle fasi di vita del bene edilizio. Attraverso questa evoluzione, anche le piccole committenze possono impostare metodologicamente un corretto processo BIM oriented. La digitalizzazione del settore AECO comporta la necessità di cambiare il paradigma che ancora in questi anni è stato prepotentemente proposto, ovvero passare dalla presunta centralità del progetto alla centralità della domanda.

Questa edizione italiana del testo di riferimento internazionale sul BIM è nata dall'esigenza, condivisa con gran parte del mondo della progettazione e produzione edilizia, di fornire al panorama della committenza pubblica o privata, delle professioni e delle imprese, un volume che fosse capace di mettere in evidenza la grande novità rappresentata dall'adozione del BIM all'interno dei propri processi ideativi, produttivi e gestionali. Nella prima parte il volume affronta le tematiche relative alla gestione contrattuale del settore delle costruzioni e di come l'introduzione del BIM stia spostando l'attenzione degli attori su processi collaborativi; esamina quindi tutto l'apparato tecnologico (hardware e software) in termini di interoperabilità e di piattaforme BIM. I capitoli successivi riguardano rispettivamente i proprietari o i gestori dell'edificio, i progettisti, le imprese esecutrici e infine i subappaltatori e i fornitori; questi capitoli evidenziano gli sforzi richiesti dallo sviluppo del BIM all'interno dei processi aziendali, i possibili elementi di resistenza, ma soprattutto permettono di intravedere le ottimizzazioni di quegli elementi di scarsa produttività che la gestione tradizionale mantiene fortemente in essere. Un intero nuovo capitolo introduce l'importante punto di vista offerto dagli autori su come il BIM sia destinato a modificare questo settore nel breve e nel medio termine, cui fa seguito un capitolo che presenta il livello di diffusione del BIM nei diversi continenti, riportando una scheda riepilogativa per paese da cui è possibile estrarre sia norme tecniche sia report applicativi o linee guida. L'ultimo capitolo offre, tra gli altri, alcuni casi studio afferenti alla realtà italiana, a riprova dell'attenzione che anche nel nostro Paese va rivolgendosi nei confronti del BIM.

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.

Building information modelling (BIM) is revolutionising building design and construction. For architects, BIM has the potential to optimise their creativity while reducing risk in the design and construction process, thus giving them a more significant role in the building process. This book demonstrates how innovative firms are using BIM technologies to move design away from the utilitarian problems of construction, engaging them in a stunning new future in the built environment. Whereas recent books about BIM have tended to favour case-study analyses or instruction on the use of specific software, BIM Design highlights how day-to-day design operations are shaped by the increasingly generative and collaborative aspects of these new tools. BIM strategies are described as operations that can enhance design rather than simply make it more efficient. Thus book focuses on the specific creative uses of information modelling at the operational level, including the creative development of parametric geometries and generative design, the evaluation of environmental performance and the simulation and scheduling of construction/fabrication operations. This book also engages BIM's pragmatic efficiencies such as the conflict checking of building systems and the creation of bills of quantities for costing; and in so doing it demonstrates how BIM can make such activities collaborative. Throughout, projects are used to illustrate the creative application of BIM at a variety of scales. These buildings showcase work by fi rms executing projects all over the world: SHoP Architects and Construction (New York), Morphosis (Los Angeles), Populous (London), GRO Architects (New York), Reiser + Umemoto (New York), Gensler (Shanghai) and UNStudio (Amsterdam).

The Dynamo and Grasshopper for Revit Cheat Sheet Reference Manual is a collection of side by side Dynamo and Grasshopper examples in a one-page summary format also referred to as "Cheat Sheets".

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.

The Aubin Academy Master Series Revit 2011 focuses on the rationale and practicality of the Revit Architecture process allowing readers to learn faster and get a clear sense of the software and an understanding of each tool's potential.