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Technology - Automating Design vs Automating Construction 20 The Automation Themes in Architecture and Engineering: 21 From CAD to Parametric Brief History of Parametric in Architecture 21 Three Parametric

Automation, a mixture of algorithms, robots, software, and avatars, is transforming all types of jobs and industries. This book responds to one critical question for the design and construction industry: “how are architects, engineers, and contractors using information technology to further automate their practices?” Addressing the use of new digital technologies, particularly parametric automation for design and construction in the building industry, this book looks at how technologically advanced architectural and engineering practices are semi-automating their design processes by using sophisticated algorithms to transform their workflows. The book also documents a set of firms that are further advancing automation by using pre-fabrication, modularization, and custom designs via robotics.

Visual computing and descriptive geometry are multidisciplinary fields addressing the handling of images, 3D models, and other computer graphics. These ideas are experiencing a revival due to emergent technologies and applications available to developers. Based in traditional forms of design and architecture, these fields are currently experiencing a bounty of new research based on old principles. The

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Handbook of Research on Visual Computing and Emerging Geometrical Design Tools seeks to add to this knowledge base by considering these technologies from a designer's perspective rather than reiterating the principles of computer science. It combines aspects of geometry and representation with emerging tools for CAD, generation, and visualization while addressing the digital heritage of such fields. This book is an invaluable resource for developers, students of both graphic and computer-generated design, researchers, and designers.

This book explores various digital representation strategies that could change the future of wooden architectures by blending tradition and innovation. Composed of 61 chapters, written by 153 authors hailing from 5 continents, 24 countries and 69 research centers, it addresses advanced digital modeling, with a particular focus on solutions involving generative models and dynamic value, inherent to the relation between knowing how to draw and how to build. Thanks to the potential of computing, areas like parametric design and digital manufacturing are opening exciting new avenues for the future of construction. The book's chapters are divided into five sections that connect digital wood design to integrated approaches and generative design; to model synthesis and morphological comprehension; to lessons learned from nature and material explorations; to constructive wisdom and implementation-related challenges; and to parametric transfigurations and morphological optimizations.

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This book highlights computationally enabled and digitally fabricated strategies used in the design of a series of full-size wooden structures. It introduces theoretical foundations and then focuses on the possibilities that have emerged as a result of the material-aware processes. The case studies expound wood as one of the most suitable materials to experience the seamless framework introduced with the digital design-to-construction chain. Two main aspects of the pavilions constructed, developed in various international academic groups, are considered. On one hand the case studies explore tolerances of raw and engineered material intertwined with machine processing; they also address material enhancement through strip applications in timber construction. In addition, the structures are examined in the light of an extensible designing path, which acts as an interoperable procedure, bridging the virtual and the real.

Design Computing will help you understand the rapidly evolving relationship between computing, designers, and the many different environments they create or work in. The book introduces the topic of design computing, and covers the basics of hardware and software, so you don't need to be an expert. Topics include the fundamentals of digital representation, programming and interfaces for design; the shifting landscape of opportunity and expectation in practice and pedagogy; placing sensors in buildings to measure performance; and the challenge of applying information effectively in design. The book also includes additional reading for those who wish to dig deeper into the subject. Design Computing will

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provide you with a greater awareness of the issues that permeate the field, opportunities for you to investigate, and perhaps motivation to push the boundaries.

Sustainable development within urban and rural areas, transportation systems, logistics, supply chain management, urban health, social services, and architectural design are taken into consideration in the cohesive network models provided in this book. The ideas, methods, and models presented consider city landscapes and quality of life conditions based on mathematical network models and optimization. Interdisciplinary Works from prominent researchers in mathematical modeling, optimization, architecture, engineering, and physics are featured in this volume to promote health and well-being through design. Specific topics include: - Current technology that form the basis of future living in smart cities - Interdisciplinary design and networking of large-scale urban systems - Network communication and route traffic optimization - Carbon dioxide emission reduction - Closed-loop logistics chain management and operation - Modeling the effect urban environments on aging - Health care infrastructure - Urban water system management - Architectural design optimization Graduate students and researchers actively involved in architecture, engineering, building physics, logistics, supply chain management, and mathematical optimization will find the interdisciplinary work presented both informative and inspiring for further research.

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Through expanded intelligence, the use of robotics has fundamentally transformed a variety of fields, including manufacturing, aerospace, medicine, social services, and agriculture. Continued research on robotic design is critical to solving various dynamic obstacles individuals, enterprises, and humanity at large face on a daily basis. *Robotic Systems: Concepts, Methodologies, Tools, and Applications* is a vital reference source that delves into the current issues, methodologies, and trends relating to advanced robotic technology in the modern world. Highlighting a range of topics such as mechatronics, cybernetics, and human-computer interaction, this multi-volume book is ideally designed for robotics engineers, mechanical engineers, robotics technicians, operators, software engineers, designers, programmers, industry professionals, researchers, students, academicians, and computer practitioners seeking current research on developing innovative ideas for intelligent and autonomous robotics systems.

Due to its comprehensive tool-set and great potential for 3D modeling, more and more architectural design and interior design firms are adapting Autodesk Maya and integrating it into their practice. There has been no book aimed at architects and designers who wish to harness the opportunities presented by this software, until now..... The book promotes parametric design. It integrates the theoretical research of computational design and Maya non-linear modeling techniques associated with simulation, animation, digital fabrication and form-finding within

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2D & 3D design. Readers will learn: How to use Maya polygon and NURBS modeling tools to create non-linear procedural model. How to use Maya driver keys and relationship tools to generate parametrically negotiable solutions across various design professions. The design logic and generative processes, as well as the potential of parametric thinking as a resourceful tool for achieving diversity and complexity in form generation and fabrication. How to use Maya to prepare files for rapid prototyping and the integration of Maya into various fabrication techniques such as laser cutting, CNC milling, and 3D printing. How to create a digital simulation to simulate all aspects of surface properties and dynamic forces with Maya physics engine. How to use Maya skeleton system and animation tools to control complex architectural forms. How to create photo-realistic renderings with Maya lighting, material and texture mapping. Using several real projects as examples, the book will go through the entire rendering process step by step. How to combine Maya with various CAD/BIM tools to create an efficient design pipeline. How to use Maya MEL script to create customized tools and interface. The book includes case studies from Zaha Hadid Architects, Greg Lynn Form, Gage Clemenceau Architects, Tang & Yang Architects, as well as step by step exercises, demonstration projects and crucially a fantastic online resource which includes video tutorials, scripts, and Maya source files.

A shift in the architecture industry's focus in the last 20 years toward ecological concerns, long-term value, and user comfort has coincided with significant new

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developments in digital controls, actuators, shading typologies, building physics simulation capability, and material performance. This collision has afforded architects an expanded set of opportunities to create architecture that can respond directly to environmental conditions, resulting in innovative façade designs that quickly become landmarks for their cities. Authors Russell Fortmeyer and Charles Linn trace the historical development of active façades in modern architecture, and reveal how contemporary architects and consultants design and test these systems.

In recent decades, the development of computer-controlled manufacturing by adding material layer by layer, called Additive Manufacturing (AM), has developed at a rapid pace. The technology adds possibilities to the manufacturing of geometries that are not possible, or at least not economically feasible, to manufacture by more conventional manufacturing methods. AM comes with the idea that complexity is free, meaning that complex geometries are as expensive to manufacture as simple geometries. This is partly true, but there remain several design rules that need to be considered before manufacturing. The research field Design for Additive Manufacturing (DfAM) consists of research that aims to take advantage of the possibilities of AM while considering the limitations of the technique. Computer Aided technologies (CAx) is the name of the usage of methods and software that aim to support a digital product development process. CAx includes software and methods for design, the evaluation of designs,

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manufacturing support, and other things. The common goal with all CAx disciplines is to achieve better products at a lower cost and with a shorter development time. The work presented in this thesis bridges DfAM with CAx with the aim of achieving design automation for AM. The work reviews the current DfAM process and proposes a new integrated DfAM process that considers the functionality and manufacturing of components. Selected parts of the proposed process are implemented in a case study in order to evaluate the proposed process. In addition, a tool that supports part of the design process is developed. The proposed design process implements Multidisciplinary Design Optimization (MDO) with a parametric CAD model that is evaluated from functional and manufacturing perspectives. In the implementation, a structural component is designed using the MDO framework, which includes Computer Aided Engineering (CAE) models for structural evaluation, the calculation of weight, and how much support material that needs to be added during manufacturing. The component is optimized for the reduction of weight and minimization of support material, while the stress levels in the component are constrained. The developed tool uses methods for high level Parametric CAD modelling to simplify the creation of parametric CAD models based on Topology Optimization (TO) results. The work concludes that the implementation of CAx technologies in the DfAM process enables a more automated design process with less manual design iterations than traditional DfAM processes. It also discusses and presents directions for further research to achieve a fully automated design process for Additive Manufacturing.

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