

Parametric Design In Architecture Sant Cugat Del Vall S

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How to Architect

Embedded Computing Systems: Applications, Optimization, and Advanced Design

Handbook of Research on Visual Computing and Emerging Geometrical Design Tools

Formal Methods in Architecture

Mediterranean Architecture and the Green-Digital Transition

Digital Transformation of the Design, Construction and Management Processes of the Built Environment

Media-ICT

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Architecture and Design: Breakthroughs in Research and Practice

Technological Paradigms and Digital Eras

Architecture in Formation

Parametric Architecture with Grasshopper

*Parametric Design In Architecture
Sant Cugat Del Vall S*

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SLADE LARSEN

How to Architect IGI Global

Marcello Pazzaglini Tre tipologie di disegni, per esempio... For example, three types of drawings... Franco Purini Un quadrato ideale An ideal square Mario Docci Il ruolo del disegno nella progettazione del XXI secolo The role of drawing in 21st century design Carmen García Reig, Ismael García Ríos Il disegno parametrico e la geometria delle forme architettoniche Parametric design and the geometry of architectural forms Francisco Martínez Mindeguía Limiti e potenzialità del disegno Drawing: its potential and limits Luca Ribichini "Recondite Armonie" a Ronchamp "Mysterious Harmonies" at Ronchamp Marco Fasolo Il contorno apparente di Piero della Francesca. Indagine e riflessioni Piero della Francesca's apparent contour. Study and ideas Ali Abu ghanimeh, Abdulsalam Alshboul, Nabeel Al Kurdi Il disegno della pianta nell'edilizia residenziale e la sua influenza sulla concezione spaziale: il caso di Amman in Giordania Designing layouts in residential housing and its influence on the concept of space: Amman, Jordan

Embedded Computing Systems: Applications,

Optimization, and Advanced Design Springer Nature

Building Information Modelling (BIM) is being debated, tested and implemented wherever you look across the built environment sector. This book is about Heritage Building Information Modelling (HBIM), which necessarily differs from the commonplace applications of BIM to new construction. Where BIM is being used, the focus is still very much on design and construction. However, its use as an operational and management tool for existing buildings, particularly heritage buildings, is lagging behind. The first of its kind, this book aims to clearly define the scope for HBIM and present cutting-edge research findings alongside international case studies, before outlining challenges for the

future of HBIM research and practice. After an extensive introduction to HBIM, the core themes of the book are arranged into four parts: Restoration philosophies in practice Data capture and visualisation for maintenance and repair Building performance Stakeholder engagement This book will be a key reference for built environment practitioners, researchers, academics and students engaged in BIM, HBIM, building energy modelling, building surveying, facilities management and heritage conservation more widely.

Handbook of Research on Visual Computing and Emerging Geometrical Design Tools Academic Press

This book collects contributions of forefront research and practices related to the use of the enabling technologies of Industry 4.0 in the architecture and design fields and their impact on the UN's Sustainable Developments goals. The book is structured into three sections (research, practice, and technologies), with the goal of creating a new framework useful for widespread awareness necessary to initiate technology transfer processes for the benefit of the public sector, universities, research centers, and innovative companies, and a new professional figure capable of controlling the entire process is essential. Thus, the book chapters arouse a series of relevant topics such as computational and parametric design, performance-based architecture, data-driven design strategies, parametric environmental design and analysis, computational and parametric structural design and analysis, AI and machine learning, BIM and interoperability, VR and AR, digital and robotic fabrication, additive manufacturing and 3D printing, R&D and entrepreneurship, circular architecture, and didactics. In the post-digital era, where the essence of design lies in the control and information of the process that holistically involves all the aspects mentioned above, rather than in formal research, it is necessary to understand technologies and analyze the advantages that they can bring in terms of environmental

sustainability and product innovation.

Formal Methods in Architecture Springer

The basics of the profession and practice of architecture, presented in illustrated A-Z form. The word "architect" is a noun, but Doug Patt uses it as a verb—coining a term and making a point about using parts of speech and parts of buildings in new ways. Changing the function of a word, or a room, can produce surprise and meaning. In *How to Architect*, Patt—an architect and the creator of a series of wildly popular online videos about architecture—presents the basics of architecture in A-Z form, starting with "A is for Asymmetry" (as seen in Chartres Cathedral and Frank Gehry), detouring through "N is for Narrative," and ending with "Z is for Zeal" (a quality that successful architects tend to have, even in fiction—see *The Fountainhead's* architect-hero Howard Roark.) *How to Architect* is a book to guide you on the road to architecture. If you are just starting on that journey or thinking about becoming an architect, it is a place to begin. If you are already an architect and want to remind yourself of what drew you to the profession, it is a book of affirmation. And if you are just curious about what goes into the design and construction of buildings, this book tells you how architects think. Patt introduces each entry with a hand-drawn letter, and accompanies the text with illustrations that illuminate the concept discussed: a fallen Humpty Dumpty illustrates the perils of fragile egos; photographs of an X-Acto knife and other hand tools remind us of architecture's nondigital origins. *How to Architect* offers encouragement to aspiring architects but also mounts a defense of architecture as a profession—by calling out a defiant verb: architect!

Mediterranean Architecture and the Green-Digital Transition Routledge

Designing Kinetics for Architectural Facades Taylor & Francis
Digital Transformation of the Design, Construction and Management Processes of the Built Environment IGI Global
This edited book gathers research studies presented at the 5th International Symposium on Formal Methods in Architecture (5FMA), Lisbon 2020. Studies focus on the use of methodologies, especially those that have witnessed recent developments, that stem from the mathematical and computer sciences and are developed in a collaborative way with architecture and related fields. This book constitutes a contribution to the debate and to the introduction of new methodologies and tools in the mentioned fields that derive from the application of formal methods in the creation of new explicit languages for problem-solving in architecture and urbanism. It adds valuable insight into the development of new practices solving identified societal problems and promoting the digital transformation of institutions in the mentioned fields. The primary audience of this book will be from the fields of architecture, urban planning, civil engineering, AEC, landscape design, computer sciences and mathematics, both academicians and professionals.

Media-ICT Springer Nature

The support for polygeneration lies in the possibility of integrating different technologies into a single energy system, to maximize the utilization of both fossil and renewable fuels. A system that delivers multiple forms of energy to users, maximizing the overall efficiency makes polygeneration an emerging and viable option for energy consuming industries. *Polygeneration Systems: Design, Processes and Technologies* provides simple and advanced calculation techniques to evaluate energy, environmental and economic performance of polygeneration systems under analysis. With specific design guidelines for each type of polygeneration system and experimental performance data, referred both to single components and overall systems, this title covers all aspects of

polygeneration from design to operation, optimization and practical implementation. Giving different aspects of both fossil and non-fossil fuel based polygeneration and the wider area of polygeneration processes, this book helps readers learn general principles to specific system design and development through analysis of case studies, examples, simulation characteristics and thermodynamic and economic data. Detailed economic data for technology to assist developing feasibility studies regarding the possible application of polygeneration technologies Offers a comprehensive list of all current numerical and experimental results of polygeneration available Includes simulation models, cost figures, demonstration projects and test standards for designers and researchers to validate their own models and/or to test the reliability of their results

Designing Kinetics for Architectural Facades Routledge

"The handbook introduces the theoretical basis and the main parametric modeling techniques based on algorithms, showing Grasshopper's practical applications and its potentialities in architecture, design and fabrication."--P. [4] of cover.

Architectural Publications Index Springer

This textbook teaches the fundamentals of building energy modeling and analysis using open source example applications built with the US DOE's OpenStudio modeling platform and EnergyPlus simulation engine. Designed by researchers at US National Laboratories to support a new generation of high performance buildings, EnergyPlus and OpenStudio are revolutionizing how building energy modeling is taught in universities and applied by professional architects and engineers around the world. The authors, all researchers at National Renewable Energy Laboratory and members of the OpenStudio software development team, present modeling concepts using open source software that may be generally applied using a variety of software tools commonly used by design professionals. The book also discusses modeling process automation in the context of OpenStudio Measures—small self-contained scripts that can transform energy models and their data—to save time and effort. They illustrate key concepts through a sophisticated example problem that evolves in complexity throughout the book. The text also examines advanced topics including daylighting, parametric analysis, uncertainty analysis, design optimization, and model calibration. *Building Energy Modeling with OpenStudio* teaches students to become sophisticated modelers rather than simply proficient software users. It supports undergraduate and graduate building energy courses in Architecture, and in Mechanical, Civil, Architectural, and Sustainability Engineering.

Analysis, Conservation, and Restoration of Tangible and Intangible Cultural Heritage Springer

Experimental data were collected and analyzed under various cloud cover conditions to establish the relationship between solar irradiance and illuminance. Empirically derived equations are presented for estimating diffuse and total illuminance as a function of total and diffuse solar radiation.

FOLDS, BLOBS & BOXES

Actar D, Inc.

Past, Present, and Future of Knowledge Acquisition This book contains the proceedings of the 11th European Workshop on Knowledge Acquisition, Modeling, and Management (EKAW '99), held at Dagstuhl Castle (Germany) in May of 1999. This continuity and the high number of s- missions re?ect the mature status of the knowledge acquisition community. Knowledge Acquisition started as an attempt to solve the main bottleneck in developing expert systems (now called knowledge-based systems): Acquiring knowledge from a human expert.

Various methods and tools have been developed to improve this process. These approaches significantly reduced the cost of developing knowledge-based systems. However, these systems often only partially fulfilled the task they were developed for and maintenance remained an unsolved problem. This required a paradigm shift that views the development process of knowledge-based systems as a modeling activity. Instead of simply transferring human knowledge into machine-readable code, building a knowledge-based system is now viewed as a modeling activity. A so-called knowledge model is constructed in interaction with users and experts. This model need not necessarily reflect the already available human expertise. Instead it should provide a knowledge level characterization of the knowledge that is required by the system to solve the application task. Economy and quality in system development and maintainability are achieved by reusable problem-solving methods and ontologies. The former describe the reasoning process of the knowledge-based system (i. e. , the algorithms it uses) and the latter describe the knowledge structures it uses (i. e. , the data structures). Both abstract from specific application and domain specific circumstances to enable knowledge reuse.

Architecture and Design: Breakthroughs in Research and Practice IGI Global

Adaptable Architecture provides thought-provoking and inquisitive insights into how we can prolong the useful life of buildings by designing them to be more adaptable, and hence create a more sustainable built environment. The book provides a theoretical foundation counterpointed by the experiences and ideas of those involved in the design and use of buildings. It explains many approaches to designing for change, with lessons from history, and case studies including The Cedar Rapids Public Library, Kentish Town Health Centre and Folkestone Performing Arts Centre, which stretch our thinking beyond the conventional notions of adaptability. The authors reveal the many conditions that make it a complex design phenomenon, by considering the purpose, design and business case of buildings as well as the physical product. Full of summaries, diagrams, reference charts, tables, and photos of exemplar solutions for use as conversational tools or working aids, this book is for any professional or student who wants to research, question, imagine, illustrate - and ultimately design for - adaptation. In addition, further information and resources are available through the Adaptable Futures website www.adaptablefutures.com which includes additional case studies, videos, information about industry events and up-to-the-minute developments.

Technological Paradigms and Digital Eras Springer

This book constitutes the refereed proceedings of the 4th International Symposium on Solving Irregularly Structured Problems in Parallel, IRREGULAR'97, held in Paderborn, Germany, in June 1997. The 18 revised full papers presented were carefully selected by the program committee for inclusion in the volume; also included are full papers by the five invited speakers. Among the topics covered are discrete algorithms, randomized methods and approximation algorithms, implementations, programming environments, systems and applications, and scheduling and load balancing.

Architecture in Formation Taylor & Francis

Technological evolutions have changed the field of architecture exponentially, leading to more stable and energy-efficient building structures. Architects and engineers must be prepared to further enhance their knowledge in the field in order to effectively meet new and advancing standards. *Architecture and Design: Breakthroughs in Research and Practice* is an authoritative resource for the latest research on the application of new technologies and digital tools that revolutionize the work of

architects globally, aiding in architectural design, planning, implementation, and restoration. Highlighting a range of pertinent topics such as design anthropology, digital preservation, and 3D modeling, this publication is an ideal reference source for researchers, scholars, IT professionals, engineers, architects, contractors, and academicians seeking current research on the development and creation of architectural design.

PARAMETRIC ARCHITECTURE WITH GRASSHOPPER

Designing Kinetics for Architectural Facades

Published in 1923, *Toward an Architecture* had an immediate impact on architects throughout Europe and remains a foundational text for students and professionals. Le Corbusier urges readers to cease thinking of architecture as a matter of historical styles and instead open their eyes to the modern world. Simultaneously a historian, critic, and prophet, he provocatively juxtaposes views of classical Greece and Renaissance Rome with images of airplanes, cars, and ocean liners. Le Corbusier's slogans--such as "the house is a machine for living in"--and philosophy changed how his contemporaries saw the relationship between architecture, technology, and history. This edition includes a new translation of the original text, a scholarly introduction, and background notes that illuminate the text and illustrations.

Planning with Landscape: Green Infrastructure to Build Climate-Adapted Cities CRC Press

Architecture in Formation is the first digital architecture manual that bridges multiple relationships between theory and practice, proposing a vital resource to structure the upcoming second digital revolution. Sixteen essays from practitioners, historians and theorists look at how information processing informs and is informed by architecture. Twenty-nine experimental projects propose radical means to inform the new upcoming digital architecture. Featuring essays by: Pablo Lorenzo-Eiroa, Aaron Sprecher, Georges Teyssot, Mario Carpo, Patrik Schumacher, Bernard Cache, Mark Linder, David Theodore, Evan Douglass, Ingeborg Rocker and Christian Lange, Antoine Picon, Michael Wen-Sen Su, Chris Perry, Alexis Meier, Achim Menges and Martin Bressani. Interviews with: George Legendre, Alessandra Ponte, Karl Chu, Ciro Najle, and Greg Lynn. Projects by: Diller Scofidio and Renfro; Mark Burry; Yehuda Kalay; Omar Khan; Jason Kelly Johnson, Future Cities Lab; Alejandro Zaera-Polo and Mainer Llaguno Munitxa; Anna Dyson / Bess Krietemeyer, Peter Stark, Center for Architecture, Science and Ecology (CASE); Philippe Rahm; Lydia Kallipoliti and Alexandros Tsamis; Neeraj Bhatia, Infranet Lab; Jenny Sabin, Lab Studio; Luc Courschene, Society for Arts and Technology (SAT); Eisenman Architects; Preston Scott Cohen; Eiroa Architects; Michael Hansmeyer; Open Source Architecture; Andrew Saunders; Nader Tehrani, Office dA; Satoru Sugihara, ATLV and Thom Mayne, Morphosis; Reiser and Umemoto; Roland Snooks, Kokkugia; Philip Beesley; Matias del Campo and Sandra Manninger SPAN; Michael Young; Eric Goldemberg, Monad Studio; Francois Roche; Ruy Klein; Chandler Ahrens and John Carpenter.

Parametric Design for Architecture ACTAR Publishers

This is volume 1 of a 2-volume set. *Marine Design XIII* collects the contributions to the 13th International Marine Design Conference (IMDC 2018, Espoo, Finland, 10-14 June 2018). The aim of this IMDC series of conferences is to promote all aspects of marine design as an engineering discipline. The focus is on key design challenges and opportunities in the area of current maritime technologies and markets, with special emphasis on: • Challenges in merging ship design and marine applications of experience-based industrial design • Digitalisation as

technological enabler for stronger link between efficient design, operations and maintenance in future • Emerging technologies and their impact on future designs • Cruise ship and icebreaker designs including fleet compositions to meet new market demands To reflect on the conference focus, Marine Design XIII covers the following research topic series: •State of art ship design principles - education, design methodology, structural design, hydrodynamic design; •Cutting edge ship designs and operations - ship concept design, risk and safety, arctic design, autonomous ships; •Energy efficiency and propulsions - energy efficiency, hull form design, propulsion equipment design; •Wider marine designs and practices - navy ships, offshore and wind farms and production. Marine Design XIII contains 2 state-of-the-art reports on design methodologies and cruise ships design, and 4 keynote papers on new directions for vessel design practices and tools, digital maritime traffic, naval ship designs, and new tanker design for arctic. Marine Design XIII will be of interest to academics and professionals in maritime technologies and marine design.

BUILDING ENERGY MODELING WITH OPENSTUDIO

Heinz Architectural Center Carnegie Museum of Art
Embedded computing systems play an important and complex role in the functionality of electronic devices. With our daily routines becoming more reliant on electronics for personal and professional use, the understanding of these computing systems is crucial. Embedded Computing Systems: Applications, Optimization, and Advanced Design brings together theoretical and technical concepts of intelligent embedded control systems and their use in hardware and software architectures. By highlighting formal modeling, execution models, and optimal implementations, this reference source is essential for experts, researchers, and technical supporters in the industry and academia.

Marine Design XIII, Volume 1 Phaidon Press

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.

Computer-Aided Architectural Design. Future Trajectories
Springer Nature

This book highlights selected papers presented during the bi-annual World Renewable Energy Network's 2019 Med Green Forum. This international forum highlights the importance of growing renewable energy applications in two main sectors: Electricity Generation and Sustainable Building. The papers highlight the most current research and technological breakthroughs illustrating the viability of using renewable energy to satisfy energy needs. Coverage includes a broad range of renewable energy technologies and applications in all sectors - electricity production, heating and cooling, agricultural applications, water desalination, industrial applications, and transport. Presents leading-edge research in green building, sustainable architecture, and renewable energy; Covers a broad range of renewable energy technologies and applications in all sectors; Contains case studies and examples to enhance practical application of the technologies presented.

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