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Computational Design Thinking

**Edited by
Achim Menges
and Sean Ahlquist**

Computational Design Thinking Computation Design Thinking

Philip L. Frana, Michael J. Klein



Computational Design Thinking Computation Design Thinking:

Computational Design Thinking Achim Menges, Sean Ahlquist, 2011-10-24 The current transition from Computer Aided Design CAD to Computational Design in architecture represents a profound shift in design thinking and methods Representation is being replaced by simulation and the crafting of objects is moving towards the generation of integrated systems through designer authored computational processes While there is a particular history of such an approach in architecture its relative newness requires the continued progression of novel modes of design thinking for the architect of the 21st century This AD Reader establishes a foundation for such thinking It includes multifaceted reflections and speculations on the profound influence of computational paradigms on architecture It presents relevant principles from the domains of mathematics and computer science developmental and evolutionary biology system science and philosophy establishing a discourse for computational design thinking in architecture Rather than a merely technical approach the book will discuss essential intellectual concepts that are fundamental not only for a discourse on computational design but also for its practice This anthology provides a unique collection of seminal texts by authors who have either provided a significant starting point through which a computational approach to design has been pursued or have played a considerable role in shaping the field An important aspect of this book is the manner in which adjacent fields and historical texts are connected Both the source of original inspiration and scientific thought are presented alongside contemporary writings on the continually evolving computational design discourse Emerging from the field of science principally the subjects of morphogenesis evolution and mathematics selected texts provide a historical basis for a reconfigured mindset of processes that generate arrange and describe form Juxtaposed against more contemporary statements regarding the influence of computation on design thinking the book offers advancements of fundamental texts to the particular purpose of establishing novel thought processes for architecture theoretically and practically The first reader to provide an effective framework for computational thinking in design Includes classic texts by Johan W von Goethe D Arcy Thompson Ernst Mayr Ludwig von Bertalanffy Gordon Pask Christopher Alexander John H Holland Nicholas Negroponte William Mitchell Peter J Bentley David W Corne Sanford Kwinter John Frazer Kostis Terzidis Michael Weinstock and Achim Menges Features new writing by Mark Burry Jane Burry Manuel DeLanda and Peter Trummer

Crafting Textiles in the Digital Age Nithikul Nimkulrat, Faith Kane, Kerry Walton, 2016-09-08 In an era of increasingly available digital resources many textile designers and makers find themselves at an interesting juncture between traditional craft processes and newer digital technologies Highly specialized craft design practitioners may now elect to make use of digital processes in their work but often choose not to abandon craft skills fundamental to their practice and aim to balance the complex connection between craft and digital processes The essays collected here consider this transition from the viewpoint of aesthetic opportunity arising in the textile designer's hands on experimentation with material and digital technologies available in the present Craft provides the foundations for

thinking within the design and production of textiles and as such may provide some clues in the transition to creative and thoughtful use of current and future digital technologies Within the framework of current challenges relating to sustainable development globalization and economic constraints it is important to interrogate and question how we might go about using established and emerging technologies in textiles in a positive manner

Computational Design Rongrong Yu,Ning Gu,Michael J. Ostwald,2021-07-25 New computational design tools have evolved rapidly and been increasingly applied in the field of design in recent years complimenting and even replacing the traditional design media and approaches Design as both the process and product are changing due to the emergence and adoption of these new technologies Understanding and assessing the impact of these new computational design environments on design and designers is important for advancing design in the contemporary context Do these new computational environments support or hinder design creativity How do those tools facilitate designers thinking Such knowledge is also important for the future development of design technologies Research shows that design is never a mysterious non understandable process for example one general view is that design process shares a common analysis synthesis evaluation model during which designers interact between design problem and solution spaces Understanding designers thinking in different environments is the key to design research education and practice This book focuses on emerging computational design environments whose impact on design and designers have not been comprehensively and systematically studied It comprises three parts The history and recent developments of computational design technologies are introduced in Part I The main categories of technologies cover from computer aided drafting and modelling tools to visual programming and scripting tools for algorithmic design to advanced interfaces and platforms for interactions between designers between designers and computers and between the virtual environment and the physical reality To critically explore design thinking especially in these new computational design environments formal approaches to studying design thinking and design cognition are introduced and compared in Part II drawing on literature and studies from the 70s to the current era Part III concludes the book by exploring the impact of different computational design technologies on design and designers using a series of case studies conducted by the author team building on their close collaboration over the past five years The book offers new insights into designers thinking in the rapidly evolving computational design environments which have not been critically and systematically studied and reported in the current literature The book is meant for design researchers educators and students professional practitioners and consultants as well as people who are interested in computational design in general

Formal Methods in Architecture Sara Eloy,David Leite Viana,Franklin Morais,Jorge Vieira Vaz,2021-01-04 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

Envisioning the Futures - Designing and Building for People and the Environment Rossano Albatici, Michela Dalprà, Maria Paola Gatti, Gianluca Maracchini, Simone Torresin, 2025-11-24 This book gathers the proceedings of the 12th International Conference of Ar Tec Scientific Society of Architectural Engineering Colloqui AT e which was held in Trento Italy on June 11 14 2025 and brought together scholars in the fields of construction and conservation history building construction and performance building design and technologies Digital transition and design of 4 0 buildings digital twins for the management of historical building heritage building human environment relationships and mitigation of vulnerabilities for the preservation of the built environment are also explored The contributions demonstrate that architectural engineering enables the construction of sustainable resilient adaptive and high performance buildings and as such is instrumental in fighting against climate change

Technological Imagination in the Green and Digital Transition Eugenio Arbizzani, Eliana Cangelli, Carola Clemente, Fabrizio Cumo, Francesca Giofrè, Anna Maria Giovenale, Massimo Palme, Spartaco Paris, 2023-06-29 This open access book addresses the pressing need for sustainability in urban development and the use of technology with cities to serve as the main stage for strategies that seek to meet the targets and the cross sector priorities indicated in the EU s Next Generation program all in pursuit of a solid recovery on the part of the European economy along lines of ecological transition digitalization competitiveness training and inclusion to overcome social territorial and gender differences The international study encounter is meant to promote visions shared by architectural technology and other disciplines which though they may appear to differ are closely interconnected with the aim of achieving an open interdisciplinary integration capable of proposing concrete projects regarding topics held to be of strategic importance to the future of the built environment These are identified to draw up evolving scenarios of architecture and cities suited to reflection at various levels on innovative models of process and product

Encyclopedia of Artificial Intelligence Philip L. Frana, Michael J. Klein, 2021-04-07 This authoritative reference work will provide readers with a complete overview of artificial intelligence AI including its historic development and current status existing and projected AI applications and present and potential future impact on the United States and the world Some people believe that artificial intelligence AI will revolutionize modern life in ways that improve human existence Others say that the promise of AI is overblown Still others contend that AI applications could pose a grave threat to the economic security of millions of people by taking their jobs and otherwise rendering them obsolete or even worse that AI could actually spell the end of the human race This volume will help users understand the reasons AI

development has both spirited defenders and alarmed critics explain theories and innovations like Moore's Law mindcloning and Technological Singularity that drive AI research and debate and give readers the information they need to make their own informed judgment about the promise and peril of this technology All of this coverage is presented using language and terminology accessible to a lay audience

Architectural Research Addressing Societal Challenges Manuel Jorge Rodrigues Couceiro da Costa, Filipa Roseta, Joana Pestana Lages, Susana Couceiro da Costa, 2019-08-08 The escalating interdependency of nations drives global geopolitics to shift ever more quickly Societies seem unable to control any change that affects their cities whether positively or negatively Challenges are global but solutions need to be implemented locally How can architectural research contribute to the future of our changing society How has it contributed in the past The theme of the 10th EAAE ARCC International Conference Architectural Research Addressing Societal Challenges was set to address these questions This book Architectural Research Addressing Societal Challenges includes reviewed papers presented in June 2016 at the 10th EAAE ARCC International Conference which was held at the facilities of the Faculty of Architecture of the University of Lisbon The papers have been further divided into the following five sub themes a Changing Society In Transit Global Migration Renaturalization of the City Emerging Fields of Architectural Practice and Research on Architectural Education The EAAE ARCC International Conference held under the aegis of the EAAE and of the ARCC is a conference organized every other year in collaboration with one of the member schools universities of those associations alternatively in North America or in Europe

Architectural Research Addressing Societal Challenges Volume 2 Manuel Jorge Rodrigues Couceiro da Costa, Filipa Roseta, Susana Couceiro da Costa, Joana Pestana Lages, 2017-09-19 The EAAE ARCC International Conference held under the aegis of the EAAE European Association for Architectural Education and of the ARCC Architectural Research Centers Consortium is a conference organized every other year in collaboration with one of the member schools universities of those associations alternatively in North America or in Europe The EAAE ARCC Conferences began at the North Carolina State University College of Design Raleigh with a conference on Research in Design Education 1998 followed by conferences in Paris 2000 Montreal 2002 Dublin 2004 Philadelphia 2006 Copenhagen 2008 Washington 2010 Milan 2012 and Honolulu 2014 The conference discussions focus on research experiences in the field of architecture and architectural education providing a critical forum for the dissemination and engagement of current ideas from around the world

Handbook of Research on Methodologies for Design and Production Practices in Interior Architecture Garip, Ervin, Garip, S. Banu, 2020-11-20 Studio environments can be defined as multi dimensional integrated production spaces where basic design trainings take place and where design issues including theoretical notions such as sociological political phenomenological and other dimensions are discussed Present approaches within the literature and social media on this topic gives cause for students to evaluate their future professions over finished and pictorial products rather than ontological and processual means While there are many resources available on the present approaches of

aesthetics and visuality of interior spaces there is not much research available on new design methodologies related design processes and new applied methods in interior architecture Based on different contexts these methods of design practice have the potential to enrich design processes and create multiple discussion platforms within project studios as well as other design media These different representations and narration methods for research in the context of interior architecture can be effectively used in design processes The Handbook of Research on Methodologies for Design and Production Practices in Interior Architecture proposes new design methodologies and related design processes and introduces new applied method approaches while presenting alternative methods that have been used within design studios in the field of interior architecture The chapters deal with four major sections the design process and interdisciplinary approaches then scenario development and content followed by material texture and atmosphere and concluding with new approaches to design While highlighting topics such as spatial perception design strategies architectural atmosphere and design thinking this book is of interest to architects interior designers practitioners stakeholders researchers academicians and students looking for advanced research on the new design methodologies and processes for interior architecture

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