

Adaptable Architecture Theory And Practice

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 Urban Inclusivity in Southern Africa

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Transforming Architecture, Landscape, and Urbanism Routledge

After two decades of experimentation with the digital, the prevalent paradigm of formal continuity is being revised and questioned by an emerging generation of architects and theorists. While the world struggles with a global housing crisis and the impact of accelerated automation on labour, digital designers' narrow focus on mere style and continuous differentiation seems increasingly out of touch. This issue charts an emerging body of work that is based on a computational understanding of the discrete part or building block – elements that are as scalable, accessible and versatile as digital data. The discrete proposes that a new, digital understanding of assembly, based on parts, contains the greatest promise for a complex, open-ended, adaptable architecture. This approach capitalises on the digital economy and automation, with the potential of the digital to democratise production and increase access. The digital not only has deep implications for how we design and produce architecture; it is first and foremost a new system of production with economic, social and political consequences that need to be taken into account. This issue presents a diverse body of work focused on the notion of the discrete: from design experiments and aesthetics, to urban models, tectonics, distributed robots, new material organisations and post-capitalist scenarios engaging with automation. Contributors: Viola Ago, Mario Carpo, Emmanuelle Chiappone-Piriou, Mollie Claypool, Manuel Jimenez García, Daniel Koehler and Rasa Navasaityte, Immanuel Koh, Neil Leach, Ryan Manning, Philippe Morel, M Casey Rehm, Jose Sanchez, Marrikka Trotter, Manja van de Worp, Maria Yablonina and Lei Zheng. Featured Architects: Kengo Kuma, Lab-eds, Plethora Project, MadM, EZCT, Eragatory and Studio Kinch.

MIMED Forum IV Routledge

With the entire world experiencing the global pandemic and its aftermath, VUCA (Volatile, Uncertain, Complex, and Ambiguous) conditions have never been more extreme and the need for adaptive leadership never more urgent. But how is adaptive leadership applied outside Western cultures? How can it be taught through leadership development programs? Which tools enhance its practice and its teaching? How does adaptive leadership relate to other key theories and practices? This volume answers these questions and more as it illustrates how adaptive leadership practices address some of the world's most pressing challenges-political and cultural division, remote work, crisis management-across a variety of sectors. Adaptive leadership has been explained as a key leadership approach for dealing with adaptive, as distinguished from technical or predictable, problems, especially prevalent in complex environments. However, adaptive leadership scholarship has suffered from a lack of conceptual clarity and casual application of its core concepts. It remains solidly Western in its prescriptions. This book will expand readers' understanding of adaptive leadership and its potential to solve local and global adaptive challenges and will explore its relevance and application to cultures outside the United States. Aiming to increase conceptual clarity about adaptive leadership to enhance future scholarship and application and illustrate novel approaches and perspectives, this book will be of interest to researchers, academics, practitioners, and students in the fields of leadership, strategy, and organizational studies.

Innovative Designs for Warm Climates Taylor & Francis

"This book is a valuable addition to the reading list of executives, managers, and staff in business, government, and other sectors who seek to keep their enterprises agile and efficient as they manage change, implement new business processes and supporting technologies, and pursue important strategic goals"--Provided by publisher.

Design for Active Envelopes Routledge

The notion of ecology has become central to contemporary design discourse. This reflects contemporary concerns for our planet and a new understanding of the primary entanglement of the

human species with the rest of the world. The use of the term 'ecology' with design tends to refer to how to integrate ecologies into design and cities and be understood in a biologically-scientific and technical sense. In practice, this scientific-technical knowledge tends to be only loosely employed. The notion of ecology is also often used metaphorically in relation to the social use of space and cities. This book argues that what it calls the 'biological' and 'social' senses of ecology are both important and require distinctly different types of knowledge and practice. It proposes that science needs to be taken much more seriously in 'biological ecologies', and that 'social ecologies' can now be understood non-metaphorically as assemblages. Furthermore, this book argues that design practice itself can be understood much more rigorously, productively and relevantly if understood ecologically. The plural term 'ecologies design' refers to these three types of ecological design. This book is unique in bringing these three perspectives on ecological design together in one place. It is significant in proposing that a strong sense of ecologies design practice will only follow from the interconnection of these three types of practice. Ecologies Design brings together leading international experts and relevant case studies in the form of edited research essays, case studies and project work. It provides an overarching critique of current ecologically-oriented approaches and offers evidence and exploration of emerging and effective methods, techniques and concepts. It will be of great interest to academics, professionals and students in the built environment disciplines.

Aligning Principles, Practices, and Culture Routledge

This book contains selected papers from SEB-18, the Tenth International Conference on Sustainability in Energy and Buildings, which was organised by KES International and Griffith University and held in Gold Coast, Australia in June 2018. SEB-18 invited contributions on a range of topics related to sustainable buildings and renewable energy, and explored innovative topics regarding intelligent buildings and cities. Applicable areas included the sustainable design and of buildings, neighbourhoods and cities (built and natural environment); optimisation and modelling techniques; smart energy systems for smart cities; green information communications technology; and a broad range of solar, wind, wave and other renewable energy topics. The aim of the conference was to bring together researchers and government and industry professionals to discuss the future of energy in buildings, neighbourhoods and cities from a theoretical, practical, implementation and simulation perspective. In addition, SEB-18 offered an exciting opportunity to present, interact, and learn about the latest research in Sustainability in Energy and Buildings.

Architecture and Adaptation Cambridge Scholars Publishing

This book's point of departure rests on the premises that dimensions of the mainstream inclusive city discourse fail to capture in detail vulnerable clusters of society (being women, children, and the aging), the minority clusters (i.e., the blind, the disabled), and migrants. In addition, it fails to recognize the increase of spatial inequality driven by racial and class differences—a factor that has seen an increase in community violence and protests. The focus on spatial inequality has, for a long time, blind-folded urban authorities to ignore exclusion arising out of the same environments created with a notion of creating inclusivity. Hence this book "collapses spatial walls" as it seeks to uncover the true perspectives of inclusivity in cities beyond spatial dimensions but within social realms. The depth of this book's enquiry rests on its critical investigation of Southern African cities' through historical epochs of apartheid and colonialism in the region.

Changing Parameters and Practice Routledge

The constant in architecture's evolution is change. Adaptive Architecture explores structures, or environments that accommodate multiple functions at the same time, sequentially, or at periodically recurring events. It demonstrates how changing technological, economic, ecological and social conditions have altered the playing field for architecture from the design of single purpose structures to the design of interacting systems of synergistically interdependent, distributed buildings. Including contributors from the US, UK, Japan, Australia, Germany and South Africa, the essays are woven into a five-part framework which provides a broad and unique treatment of this

important and timely issue.

Thought and Action in the Design and Production of Buildings Springer Nature

Adaptable Architecture Theory and practice Routledge

Ecologies Design Routledge

Managing Trade-Offs in Adaptable Software Architectures explores the latest research on adapting large complex systems to changing requirements. To be able to adapt a system, engineers must evaluate different quality attributes, including trade-offs to balance functional and quality requirements to maintain a well-functioning system throughout the lifetime of the system. This comprehensive resource brings together research focusing on how to manage trade-offs and architect adaptive systems in different business contexts. It presents state-of-the-art techniques, methodologies, tools, best practices, and guidelines for developing adaptive systems, and offers guidance for future software engineering research and practice. Each contributed chapter considers the practical application of the topic through case studies, experiments, empirical validation, or systematic comparisons with other approaches already in practice. Topics of interest include, but are not limited to, how to architect a system for adaptability, software architecture for self-adaptive systems, understanding and balancing the trade-offs involved, architectural patterns for self-adaptive systems, how quality attributes are exhibited by the architecture of the system, how to connect the quality of a software architecture to system architecture or other system considerations, and more. Explains software architectural processes and metrics supporting highly adaptive and complex engineering Covers validation, verification, security, and quality assurance in system design Discusses domain-specific software engineering issues for cloud-based, mobile, context-sensitive, cyber-physical, ultra-large-scale/internet-scale systems, mash-up, and autonomic systems Includes practical case studies of complex, adaptive, and context-critical systems

Planning, Design, Applications MIT Press

This book deals with human factors research directed towards realizing and assessing sustainability in the built environment. It reports on advanced engineering methods for sustainable infrastructure design, as well as on assessments of the efficient methods and the social, environmental, and economic impact of various designs and projects. The book covers a range of topics, including the use of recycled materials in architecture, ergonomics in buildings and public design, sustainable design for smart cities, design for the aging population, industrial design, human scale in architecture, and many more. Based on the AHFE 2017 International Conference on Human Factors, Sustainable Urban Planning and Infrastructure, held on July 17–21, 2017, in Los Angeles, California, USA, this book, by showing different perspectives on sustainability and ergonomics, represents a useful source of information for designers in general, urban engineers, architects, infrastructure professionals, practitioners, public infrastructure owners, policy makers, government engineers and planners, as well as operations managers, and academics active in applied research.

Open Building in Practice Springer Nature

This book is unique in its attempt to explore the many ways we have of thinking about buildings. In particular it raises questions about the kinds of knowledge we have and will need in designing, making and enjoying our buildings. At the very least this book provides an overview of the fragmented construction industry, making it a vital purchase for all construction related students. However, the author has written for a wider audience making the book an essential guide for those interested in the form of buildings or the deliberate ways in which people build them.

Adaptive Reuse Routledge

In the age of post-digital architecture and digital materiality, *This Thing Called Theory* explores current practices of architectural theory, their critical and productive role. The book is organized in sections which explore theory as an open issue in architecture, as it relates to and borrows from other disciplines, thus opening up architecture itself and showing how architecture is inextricably connected to other social and theoretical practices. The sections move gradually from the specifics of architectural thought – its history, theory, and criticism – and their ongoing relation with philosophy, to the critical positions formulated through architecture's specific forms of expression, and onto more recent forms of architecture's engagement and self-definition. The book's thematic sessions are concluded by and interspersed with a series of shorter critical position texts, which, together, propose a new vision of the contemporary role of theory in architecture. What emerges, overall, is a critical and productive role for theory in architecture today: theory as a proposition, theory as task and as a 'risk' of architecture.

The Sustainable Tall Building Birkhäuser

The book is about a very active research field in software engineering. In modern society, the fact of the world's high reliance on software requires the system's robustness, i.e., continual availability and satisfactory service quality. This requirement gives rise to the popularity of the research on the self-adaptive software in open environment. There are some academic conferences dedicated to this field. But there is a lack of monographs about the topic. We believe such need is unmet in marketplace. By publishing the book, it can help bridge the gap and bring benefits to readers thereof. Key Features: The topic is well-motivated, interesting and actively studied worldwide The research represents as the state-of-the-art in the field The technical part of the book is rigidly evaluated The theoretical part of the book is sound and proved The organization and presentation of the book will be double-checked by professional scholars

Theory and Practice in Sustainable Planning and Design "O'Reilly Media, Inc."

Microservices can have a positive impact on your enterprise—just ask Amazon and Netflix—but you can fall into many traps if you don't approach them in the right way. This practical guide covers the entire microservices landscape, including the principles, technologies, and methodologies of this unique, modular style of system building. You'll learn about the experiences of organizations around the globe that have successfully adopted microservices. In three parts, this book explains how these services work and what it means to build an application the Microservices Way. You'll explore a design-based approach to microservice architecture with guidance for implementing various elements. And you'll get a set of recipes and practices for meeting practical, organizational, and cultural challenges to microservice adoption. Learn how microservices can help you drive business objectives Examine the principles, practices, and culture that define microservice architectures Explore a model for creating complex systems and a design process for building a microservice

architecture Learn the fundamental design concepts for individual microservices Delve into the operational elements of a microservices architecture, including containers and service discovery Discover how to handle the challenges of introducing microservice architecture in your organization *The Architecture of Persistence* CRC Press

This book is a collection of articles that have been published in the Special Issue "Responsive Architecture" of the MDPI journal Buildings. The eleven articles within cover various areas of sensitive architecture, including the design of packaging structures reacting to supporting components; structural efficiency of bent columns in indigenous houses; roof forms responsive to buildings depending on their resiliently transformed steel shell parts; creative design of building free shapes covered with transformed shells; artistic structural concepts of the architect and civil engineer; digitally designed airport terminal using wind analysis; rationalized shaping of sensitive curvilinear steel construction; interactive stories of responsive architecture; transformed shell roof constructions as the main determinant in the creative shaping of buildings without shapes that are sensitive to man-made and natural environments; thermally sensitive performances of a special shielding envelope on balconies; quantification of generality and adaptability of building layout using the SAGA method; and influence of initial conditions on the simulation of the transient temperature field inside a wall.

The Idea of Building Wiley

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 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.

Programming the Built Environment (Routledge Revivals) Routledge

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.

Washington Architecture, 1791-1861 Adaptable Architecture Theory and practice

Architecture and Adaptation discusses architectural projects that use computational technology to adapt to changing conditions and human needs. Topics include kinetic and transformable structures, digitally driven building parts, interactive installations, intelligent environments, early precedents and their historical context, socio-cultural aspects of adaptive architecture, the history and theory of artificial life, the theory of human-computer interaction, tangible computing, and the social studies of technology. Author Socrates Yiannoudes proposes tools and frameworks for researchers to evaluate examples and tendencies in adaptive architecture. Illustrated with more than 50 black and white images.

Sustainability in Energy and Buildings 2020 IGI Global

This book contains the proceedings of the 12th KES International Conference on Sustainability and Energy in Buildings 2020 (SEB20) held in Split, Croatia, during 24–26 June 2020 organized by KES International. SEB20 invited contributions on a range of topics related to sustainable buildings and explored innovative themes regarding sustainable energy systems. The aim of the conference is to bring together researchers, and government and industry professionals to discuss the future of energy in buildings, neighbourhoods and cities from a theoretical, practical, implementation and simulation perspective. The conference formed an exciting chance to present, interact and learn about the latest research and practical developments on the subject. The conference attracted submissions from around the world. Submissions for the Full-Paper Track were subjected to a blind peer-review process. Only the best of these were selected for presentation at the conference and publication in these proceedings. It is intended that this book provides a useful and informative snapshot of recent research developments in the important and vibrant area of sustainability in energy and buildings.

Flexibility in Architectural Education John Wiley & Sons

Architects and healthcare clients are increasingly coming to recognize that, once built, healthcare facilities are almost immediately subject to physical alterations which both respond to and affect healthcare practices. This calls into question the traditional ways in which these facilities are designed. If functions and practices are subject to alteration, the standard approach of defining required functions and practices before acquiring facilities is obsolete. We need other starting points, working methods, and ways of collaborating. Healthcare Architecture as Infrastructure presents these new approaches. Advocating an infrastructure theory of built environment transformation in which design and investment decisions are organized hierarchically and transcend short-term use, the book draws the practice and research of a number of architects from around the world. Written by experts with experience in policy making, designing, building, and managing complex healthcare environments, it shows professionals in architecture, engineering, healthcare and facilities management how to enhance the long-term usefulness of their campuses and their building stock and how to strengthen their physical assets with the capacity to accommodate a quickly evolving healthcare sector.