



# Biomimetics for Architecture & Design

Edited by

Francesco Di Stefano

# Online Biomimetics Architecture Design Analogies Technology

**Xiangyu Wang, Marc Aurel Schnabel**

## Online Biomimetics Architecture Design Analogies Technology:

Energy and Seismic Renovation Strategies for Sustainable Cities Giuseppe Margani,2019-06-11 The principle of sustainability should be strictly connected with safety since both aim to conserve resources in the case of sustainability the resources are typically thought of as environmental while in the case of safety the resources are basically human In spite of this common ground discussions on sustainability usually give insufficient attention to safety In the last years the EU has made large investments to increase the energy efficiency of the existing building stock paving the way for a low carbon future however less effort has been made to enhance its seismic resilience Therefore the safety and consequently the sustainability of towns situated in earthquake prone countries remain inadequate In such countries energy renovation actions should be combined with seismic retrofitting However a number of barriers considerably limit the real possibility of extensively undertaking combined retrofit actions especially for multi owner housing and high rise buildings These barriers are of different kinds technical e g unfeasibility and or ineffectiveness of conventional retrofit solutions financial e g high renovation costs insufficient incentives subsidies organizational e g occupants disruption and relocation renovation consensus by condominium ownerships and cultural social insufficient information and skills lack of adequate policy measures for promoting renovation actions This book aims to overcome these barriers and to bridge the gap between sustainability and safety so to conserve both human and environmental resources

*Biotechnologies and Biomimetics for Civil Engineering* Fernando Pacheco Torgal,J. A. Labrincha,M. V. Diamanti,C.-P. Yu,H. K. Lee,2014-08-16 Putting forward an innovative approach to solving current technological problems faced by human society this book encompasses a holistic way of perceiving the potential of natural systems Nature has developed several materials and processes which both maintain an optimal performance and are also totally biodegradable properties which can be used in civil engineering Delivering the latest research findings to building industry professionals and other practitioners as well as containing information useful to the public Biotechnologies and Biomimetics for Civil Engineering serves as an important tool to tackle the challenges of a more sustainable construction industry and the future of buildings

Bionics and Sustainable Design Felipe Luis Palombini,Subramanian Senthilkannan Muthu,2022-05-24 This book includes both theoretical conceptualization and practical applications in the fields of product design architecture engineering and materials The book aimed to inspire scholars and professionals to look at nature as a source of inspiration for developing new project solutions Moreover being one of the literature s first direct associations of bionics with sustainability the book can be used as a reference for those who seek to know more about the theory of bioinspired applications as well as new technologies methods materials and processes

Research into Design for a Connected World Amaresh Chakrabarti,2019-01-08 This book showcases cutting edge research papers from the 7th International Conference on Research into Design ICoRD 2019 the largest in India in this area written by eminent researchers from across the world on design processes technologies methods and tools and their impact

on innovation for supporting design for a connected world The theme of ICoRD 19 has been Design for a Connected World While Design traditionally focused on developing products that worked on their own an emerging trend is to have products with a smart layer that makes them context aware and responsive individually and collectively through collaboration with other physical and digital objects with which these are connected The papers in this volume explore these themes and their key focus is connectivity how do products and their development change in a connected world The volume will be of interest to researchers professionals and entrepreneurs working in the areas on industrial design manufacturing consumer goods and industrial management who are interested in the use of emerging technologies such as IOT IIOT Digital Twins I4 0 etc as well as new and emerging methods and tools to design new products systems and services **Re-thinking the Building**

**Envelope** Francesco Sommese,2024-09-13 This book illustrates the potential of nature when it comes to rethinking the role of the building envelope which is responsible for energy flows between the internal and external environment in the era of climate change Nature has always inspired architects and engineers in the design of structures and buildings but its role has been limited to a simple morphological imitation with aesthetic value Today however thanks to the biomimetic discipline which imitates the functional processes of nature it is possible to transfer nature's adaptive strategies to architecture and promote the design of buildings and architectural structures that adapt to the surrounding context and respond passively to environmental changes The use of advanced and innovative technologies combined with the use of smart and self responsive materials favours the creation of adaptive and responsive dynamic envelopes capable of adapting their performance to the changing conditions of the environment In this way the envelope is no longer seen as a static element but as dynamic and able to adapt to its context by playing an active role After establishing a general framework for the climate adaptive building envelope and analysing the adaptation strategies of natural organisms this book provides an overview of the biomimetic discipline applied to architecture and building technology The analysis of emblematic and recent case studies together with advanced techniques and materials and the illustration of biomimetic design methods gives this text an added value that promotes the understanding of the different phases necessary to move from nature to architectural technologies This book is an indispensable tool for researchers in the field to understand an innovative and advanced concept that meets the needs of the time In addition it can also help facilitate manufacturers to understand the current directions of scientific academic research in order to propose new technologies to the market **URBAN CORPORIS. The City and the Skin** Mickeal

Milocco Borlini,Lelio di Loreto,Carla Alberto Amadori,2020-01-30 In this Urban Corporis volume The city and the skin we asked the authors to read define and interpret the role of the skin as a facade as a protection as a compositional image of urban revelation Without formal restrictions without ethical preconceptions the skin as part of the building designed to mediate the relationship The architectural skin understood as the technological system of delimitation between architectural space and unbuilt environment can be analyzed as a boundary system between interior and exterior the most evident expression of the

identity of an artifact In this dual role of border and interface receptive as active the skin of an architecture seen also through art is charged with a double value an element of covering and protection and at the same time a tool of relationship and interface in fact towards the external world *Agile Business Leadership Methods for Industry 4.0* Bülent Akkaya,2020-10-05

Agile Business Leadership Methods for Industry 4.0 is a collection of innovative research on new leadership styles that will develop agile managers and business leaders who can improve company success in the fast paced environments created by Industry 4.0 *Architectures of the Near Future* Nic Clear,2009-10-12

In this highly pertinent issue guest editor Nic Clear questions received notions of the future Are the accepted norms of economic growth and expansion the only means by which society can develop and prosper Should the current economic crisis be making us call into question a future of unlimited growth Can this moment of crisis economic environmental and technological enable us to make more informed choices about the type of future that we want and can actually achieve Architectures of the Near Future offers a series of alternative voices developing some of the neglected areas of contemporary urban life and original visions of what might be to come Rather than providing simplistic and seductive images of an intangible shiny future it rocks the cosy world of architecture with polemical blasts Draws on topics as diverse as synthetic space psychoanalysis Postmodern geography post economics cybernetics and developments in neurology Includes an exploration of the work of JG Ballard Features the work of Ben Nicholson *Blueprint* ,2004 *The Architects' Journal* ,2003 **Research EU.** ,2011-10

*Cooper-Hewitt Museum of Design and Technology (C-HMD+T)* Isabel Marisa Corsino Carro,2009 ABSTRACT If architects are to create a sustainable world one in which we are accountable to the needs of all future generations and living creatures we must recognize that our present form of designing buildings is deeply flawed Being the number one cause of emission gases building design needs to be revolutionized to be able to surpass such climatic changes and finally harmonize with nature To create a sustainable future and solve the global warming crisis architects need to incorporate nature within design through the process known as biomimicry Janine Benyus the author of Biomimicry Innovation Inspired by Nature stressed how nature teaches to solve human problems After billions of years of research and development within nature Benyus believes that nature has perfected itself and has the key to human survival Through biomimicry architects can find solutions to design problems and apply them to sustainable design Sustainable design has not reached its peak in uniting both aesthetics and performance within the design industry Until now architecture focuses more on human needs and economics putting aside what is best for the environment thus leaving a conflict between human and nature This thesis presents an investigation into biomimicry and its architectural applications It is inspired by organisms within nature The final design project will be based on the studies of organisms and how these can be incorporated on a building's entire design program including skin structure journey and circulation From these studies I will synthesize the important components and ideas of these organisms and interpret them into the building's design The building typology chosen for this project is the museum

typology which function as a living organism The project will be site specific thus designing a museum that adapts to the site's specific surroundings The goal for this thesis is to discover organisms within nature that can be incorporated and reinterpreted into sustainable architecture It is also crucial to discover and study the complex systems within nature so that architects can incorporate ideas from it to improve architecture design     **Biomimetic Architecture** FeiFei Zhu,2010

**The Use of Biological Analogies for Problem Solving in Engineering Design [microform]** Teresa W. (Teresa Winky) Mak,2005 Biomimetic design draws from nature for design ideas For engineers it is not always feasible to rely on personal knowledge of biology to recognize the potential for application As a result prior work in the Biomimetics for Design and Innovation Laboratory has produced a process that identifies relevant phenomena from biological knowledge as stimuli for biomimetic design Inherent to the biomimetic design process is the use of analogy in which knowledge from biology is transferred to the problem of interest One difficulty observed is the inability to recognize relevant phenomena that can be applied to the problem The work in this thesis examines the use of biological analogies within the context of three studies The first study surveyed the concepts generated from the Biomimetic search process The second study investigated the use of mapping support and fixation effects The third study examined representations of biological knowledge to facilitate concept generation     Biomimetics. Technology and Innovation for Architecture Giacomo Chiesa,2017     **Bionik -**

**Architektur, Ingenieurbau, Industriedesign** ,2015     Biomimetics of Motion Sandra Persiani,2019 This book provides readers with a timely guide to the application of biomimetic principles in architecture and engineering design and describes various aspects of motion in living systems Geometric mechanical and rhythmic parameters are listed and illustrated using examples from flora and fauna and contextualized within an integrated mapping of biomechanical combinations that have proved their success in the course of evolution For designers the schemes identify those aspects that have a high probability of being efficiently combined paving the way for new solutions and offering a method of evolutionary problem solving The book guides readers through the field of nature inspired design offering an extraordinary resource for professional architects engineers and designers as well as for researchers and students Throughout the book natural evolution is approached as a powerful resource that can enrich architecture and design by providing innovative optimal and sustainable solutions

Mixed Reality In Architecture, Design, And Construction Xiangyu Wang,Marc Aurel Schnabel,2008-12-21 Mixed Reality is moving out of the research labs into our daily lives It plays an increasing role in architecture design and construction The combination of digital content with reality creates an exciting synergy that sets out to enhance engagement within architectural design and construction State of the art research projects on theories and applications within Mixed Reality are presented by leading researchers covering topics in architecture design collaboration construction and education They discuss current projects and offer insight into the next wave of Mixed Reality possibilities     *Biomimicry/biomimetics in Architecture* Eliezer Amador Pérez,2014 Millions of years have passed since the nature started the process of evolution Years

of trial and error have passed and the Mother Nature is continuing perfecting all the life on earth Everyday organisms and life are perfecting themselves adjusting their structures and bio composition in the context where they live As designers every day we are seeking a new way to resolve human s problems in so many fields Biomimicry or Biomimetics is the way of design using or emulating Mother Nature in the macro or micro context to resolve human s problems Biomimicry or Biomimetics is about capturing the essence of the structural shape aesthetics and structural efficiency of the natural subject for an architectural purpose We can also decompose reshape and reprogram the shape of the organism of inspiration for the special purpose needed as illustrated by Leonardo Da Vinci s designs Antoni Gaudi s architecture among others Biomimicry or Biomimetics generates a balance between the natural world and architecture transforming the architecture into an organism that utilize everything without damaging his habitat and coexist In this master research project we are going to use a living being bone a vertebrae to achieve characteristics wanted for a desire building structure and program The building program is going to be a Convention Multipurpose Center for the city of Gainesville Florida and the University of Florida as well

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