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# EMPATHIC SPACE

THE COMPUTATION  
OF HUMAN-CENTRIC  
ARCHITECTURE



# Empathic Space The Computation Of Human Centric Architecture Architectural Design

**D Siedentop**



## **Empathic Space The Computation Of Human Centric Architecture Architectural Design:**

**Empathic Space** ,2014-11-19 In recent years questions of space have gained renewed momentum in architecture and urban design as adaptation densification and sustainable regeneration have become an increasing priority. While most computing based design tends to emphasise the formal aspects of architecture overlooking space and its users, the original computational design approaches first spearheaded in the UK in the 1960s and 1970s tended to be focused on behavioural and occupational patterns. Over the last decade a new generation of design research has emerged that has started to implement and validate previous investigations into spatial computation aiming to understand how to design spatial configurations based on user experiences. This revives an interest in the experiential that was first explored in the early 20th century by German and Nordic organic architects who invented design methods that correlated cognitive responses of buildings occupants to spatial structure. The current revival of human centric design however represents the first design approach that synthesises spatial design and algorithmic techniques with organic design thinking which could also be regarded as a return to the first principles of architectural design. Contributors include Paul Coates, Christian Derix, Olafur Eliasson, Lucy Helme, Bill Hillier, smund Izaki, Prarthana Jagannath, Dan Montello, Juhani Pallasmaa, Philip Steadman and Guy Theriault. Featured Architects: Designers Jussi Ngeslev, Art Com, Stan Allen, Aedas, R D Markus Braach, Kaisersrot, Hermann Hertzberger, Kazuhiro Kojima, Cat Pablo Miranda and Rafi Segal.

**Diasporic Agencies: Mapping the City Otherwise** Nishat Awan, 2017-05-15 *Diasporic Agencies* addresses the neglected subject of how architecture and urban design can respond to the consequences of increasing migration. Arguing that diasporic inhabitations can only be understood as the co production of space, subjectivity and politics, the book explores questions of difference, belonging and movement in the city. Through focusing on a series of examples, it reveals how diasporas produce new types of spaces and develop new subjectivities in the contemporary European metropolis. It explores the way in which geo politics affects individual lives and how national and regional borders inscribe themselves onto diasporic bodies. The book claims that the multiple belongings of diasporic citizens half here and half there provoke a crisis in the standard modes of architectural representation that tend to homogenise and flatten experience. Instead *Diasporic Agencies* makes a case for a non representational approach where the displacement of the diasporic subject and their consequent reterritorialisation of space are developed as modes of thinking and doing. In parallel, mapping otherwise is proposed as a tool for spatial practitioners to work with these multi layered spaces. The book is aimed at spatial practitioners and theorists of all sorts: architects, artists, geographers, urban designers, anyone with a general interest in mapping or those interested in working through issues related to migration and the contemporary city.

[The Routledge Companion to Ecological Design Thinking](#) Mitra Kanaani, 2022-08-31 This companion investigates the ways in which designers, architects and planners address ecology through the built environment by integrating ecological ideas and ecological thinking into discussions of urbanism, society, culture and design. Exploring the innovation of materials, habitats

landscapes and infrastructures it furthers novel ecotopian ideas and ways of living including human made settings on water in outer space and in extreme environments and climatic conditions Chapters of this extensive collection on ecotopian design are grouped under five different ecological perspectives design manifestos and ecological theories anthropocentric transformative design concepts design connectivity climatic design and social design Contributors provide plausible sustainable design ideas that promote resiliency health and well being for all living things while taking our changing lifestyles into consideration This volume encourages creative thinking in the face of ongoing environmental damage with a view to making design decisions in the interest of the planet and its inhabitants With contributions from over 79 expert practitioners educators scientists researchers and theoreticians as well as planners architects and engineers from the U S Canada Europe and Asia this book engages theory history technology engineering and science as well as the human aspects of ecotopian design thinking and its implications for the outlook of the planet **Computer-Aided Architectural Design.**

**Design Imperatives: The Future is Now** David Gerber, Evangelos Pantazis, Biayna Bogosian, Alicia Nahmad, Constantinos Miltiadis, 2022-03-24 This book constitutes selected papers of the 19th International Conference on Computer Aided Architectural Design Futures CAAD Futures 2021 held in Los Angeles CA USA in July 2021 The 33 revised full papers presented were carefully reviewed and selected from 97 submissions The papers are organized in topical sections on past futures and present futures research and pedagogy past futures and present futures aesthetics and ethics of space architectural automations and augmentations design architectural automations and augmentations fabrication architectural automations and augmentations environment architectural automations and augmentations spatial computing **2050** Chris Luebke, 2015-08-17 Envisioning a positive future through design 2050 Designing Our Tomorrow describes the ways in which architecture and design can engage with the key drivers of change and provide affirmative aspirations for a not so distant future With a focal date of 2050 this issue of AD asks when and how the design community can should and must be taking action The discussion centres on shifts in the urban environment and an established way of life in a world of depleted natural resources and climate change Featuring interviews with Paola Antonelli of MoMA and Tim Brown of IDEO it includes contributions from thought leaders such as Janine Benyus Thomas Fisher Daniel Kraft Alex McDowell Franz Oswald and Mark Watts High profile designers like FutureCitiesLab SHoP and UrbanThinkTank are featured as examples of forward thinking and innovation in the field highlighting the need for and possibility of a shift in the global perspective The discussion includes the challenges we face in creating a positive tomorrow and the solutions that architecture and design can bring to the table Despite the proliferation of global crises possibly threatening human survival our current moment provides the opportunity to write a new positive story about our future 2050 Designing Our Tomorrow describes how the design community can contribute to that vision by asserting positive aspirations for the worlds we create ourselves See how architects and designers inspire global positive change Consider architecture s role in shaping cultural outlook Learn the key

drivers of change for the built environment Explore the perspectives of leading experts and designers Architects and planners over the centuries have put a stamp upon the planet through the physical manifestations of their belief structures Today s design community faces a rising wealth gap climate change shifting paradigms of nationalism and myriad other challenges 2050 Designing Our Tomorrow phrases global issues as a design problem and describes how architects and designers can rise to the challenge of creating a more positive future UAE and the Gulf George Katodrytis, Kevin Mitchell, 2015-03-30 At the end of the 20th century Dubai attracted international media attention as the world sought to make sense of the city s extraordinary growth Exuberant projects such as the Burj Arab the Burj Khalifa and the Palm Islands attracted investment in dreams to transform the region While the global financial crisis kept dreams from becoming reality this issue of AD seeks to present a view of architecture and urbanism in the United Arab Emirates UAE and other states in the wider Gulf Cooperation Council GCC at a time when greater economic stability promises new beginnings The issue presents examples of architecture that transcends preoccupation with fabricating images and traces the process of making contemporary Gulf cities from material tectonics to large scale masterplans By presenting the architecture of UAE and the Gulf within the context of broader regional developments and global trends it highlights how projects in the UAE Qatar Kuwait and Saudi Arabia have contributed to unprecedented urban growth while emphasising the continuing environmental challenges of building in the region In addition to highlighting various sustainable initiatives intended to counteract these challenges the issue also explores how computational design and new technologies are being innovatively employed to mitigate the impact of arid climates Contributors include Ameena Ahmadi Kelly Hutzell Varkki Pallathucheril Todd Reisz Rami el Samahy Terri Meyer Boake Jeffrey Willis International architects Foster Partners Frank Gehry HOK IM Pei Legoretta Legoretta Jean Nouvelle Reiser Umemoto Allies and Morrison Regional architects AGi Kuwait DXB lab UAE X Architects UAE

**Pavilions, Pop Ups and Parasols** Leon van Schaik, Fleur Watson, 2015-06-02 Around the world a new architectural form is emerging In public places a progressive architecture is being commissioned to promote open ended undetermined lightly programmed or unprogrammed interactions between people This new phenomenon of architectural form Pavilions Pop Ups and Parasols is presaged by rapidly changing social relationships flowing from social media such as Facebook Twitter and Instagram The nexus between real and virtual meeting is effectively being reinvented by innovative and creative architectural practices People meet in new and responsive ways architects meet their clients in new forums knowledge is met and achieved in new and interactive frameworks It contrasts bluntly with the commercially structured interactions of shopping malls and the increasingly deliberate interactions available in cultural institutions These experiences imbue a new type of client casually engaged flocking hacking crowd funding and self helping Contributors include Rob Bevan Pia Ednie Brown Roan Ching Yueh Dan Hill Martyn Hook Minsuk Cho Andrea Kahn Felicity Scott Akira Suzuki Contributing architects include Alisa Andrasek Biothing Peter Cook CRAB studio CJ Lim Studio 8 Tom Holbrook 5th Studio Matthias Hollwich HWKN

Mamou Mani Architects Benedetta Tagliabue EMBT      **The Changing Shape of Practice** Michael U. Hensel, Fredrik Nilsson, 2016-04-14 Architectural practices worldwide have to deal with increasingly complex design requirements How do practices acquire the ability to do so The Changing Shape of Practice provides a handbook of examples for practices that wish to integrate more research into their work and a reference book for students that seek to prepare themselves for the changing shape of practice in architecture It addresses the increasing integration of research undertaken in architectural practices of different sizes ranging from small to very large practices from the UK USA Europe and Asia The book is organized according to the size of the practices which is significant in that it addresses the different structures and resourcing requirements that are enabled by specific practice sizes as this determines and constrains the type scope and modes of research available to a given practice The practices covered include Woods Bagot Perkins Will White AECOM UN Studio Shop Architects PLP Architecture Kieran Timberlake 3XN ONL AZPML Thomas Herzog Partners Herreros Arquitectos Spacescape OCEAN Design Research Association By taking stock of the current shape of practice the book provides essential information for professional architects who are integrating research into their practice      **Computing the Environment** Brady Peters, Terri Peters, 2018-03-14 Computing the Environment presents practical workflows and guidance for designers to get feedback on their design using digital design tools on environmental performance Starting with an extensive state of the art survey of what top international offices are currently using in their design projects this book presents detailed descriptions of the tools algorithms and workflows used and discusses the theories that underlie these methods Project examples from Transsolar Klimaengineering Buro Happold s SMART Group Behnisch Behnisch Architects Thomas Herzog Autodesk Research are contextualized with quotes and references to key thinkers in this field such as Eric Winsberg Andrew Marsh Michelle Addington and Ali Malkawi      **Constructions** Michael Hensel, Christian Hermansen Cordua, 2015-05-04 The current trend for constructing experimental structures is now an international phenomenon It has been taken up worldwide by design professionals researchers educators and students alike There exist however distinct and significant tendencies within this development that require further investigation This issue of AD takes on this task by examining one of the most promising trajectories in this area the rise of intensely local architectures In his seminal essay of 1983 Kenneth Frampton redefined Critical Regionalism by calling for an intensely local approach to architectural design Today Frampton s legacy is regaining relevance for a specific body of work in practice and education focused on the construction of experimental structures Could this ultimately provide the seeds for a compelling and alternative approach to sustainable design Contributors include Barbara Ascher Peter Buchanan Karl Otto Ellefsen David Jolly Monge Lisbet Harboe David Leatherbarrow Areti Markopoulou Philip Nobel Rodrigo Rubio S ren S S rensen Defne Sunguro lu Hensel Featured practices Renzo Piano Building Workshop Rintala Eggertsson SHoP Studio Mumbai TYIN tegnestue      Material Synthesis Achim Menges, 2015-11-02 Material Synthesis Fusing the Physical and the Computational Guest edited by Achim Menges A new

understanding of the material in architecture is fast emerging. Designers are no longer conceiving of the digital realm as separate from the physical world. Instead, computation is being regarded as the key interface for material exploration and vice versa. This represents a significant perceptual shift in which the materiality of architecture is no longer seen to be a fixed property and passive receptor of form but is transformed into an active generator of design and an adaptive agent of architectural performance. In stark contrast to previous linear and mechanistic modes of fabrication and construction, materialisation is now beginning to coexist with design as explorative robotic processes. This represents a radical departure from both the trite modernist emphasis on truth to materials and the dismissal of materials by the previous generation of digital architects. The issue features designers, researchers and thinkers that are at the forefront of exploring new modes of material enquiry and its deep interrelationship with technology, biology and culture. Through their work, which unfolds from multifaceted alliances between the fields of design, engineering and natural sciences, it seeks to trace the emergence of a novel material culture in architecture. Architectural and engineering contributors include Sean Ahlquist, Martin Bechthold, Philippe Block, Karola Dierichs, Jan Knippers, Achim Menges, Neri Oxman, Steffen Reichert and Tobias Schwinn. Scientific and philosophical perspectives are provided by Mario Carpo, Manuel De Landa, Neil Gershenfeld and Thomas Speck. Features the design research of Harvard's Material Processes and Systems Group, MIT's Mediated Matter Group and Stuttgart University's Institute for Computational Design.

Alvar Aalto and the Future of Architecture Robert Cody, Angela Amoia, 2022-09-09. In the contemporary practice of architecture, digital design and fabrication are emergent technologies in transforming how architects present a design and form a material strategy that is responsible, equitable, sustainable, resilient and forward looking. This book exposes dialogue between history, theory, design, construction, technology and sensory experience by means of digital simulations that enhance the assessment and values of our material choices. It offers a critical look to the past to inspire the future. This new edition looks to Alvar Aalto as the primary protagonist for channeling discussions related to these topics. Architects like ALA, Shigeru Ban, 3XN, Peter Zumthor and others also play the role of contemporary guides in this review. The work of Aalto and selected contemporary architects, along with computer modeling software, showcase the importance of comprehensive design. Organized by the five Ts of contemporary architectural discourse: Typology, Topology, Tectonics, Technic, Thermodynamics, each chapter is used to connect history through Aalto and develop conversations concerning historical and contemporary models, digital simulations, ecological and passive/active material concerns, construction and fabrications and healthy sensorial environments. Written for students and academics, this book bridges knowledge from academia into practice and vice versa to help architects become better stewards of the environment, make healthier and more accountable buildings and find ways to introduce policy to make technology a critical component in thinking about and making architecture.

Parametricism 2.0 Patrik Schumacher, 2016-08-22. Parametricism is an avant garde architecture and design movement that has been growing and maturing over the last 15 years, emerging as a

remarkable global force The tendency started in architecture but now encompasses all design disciplines from urban design to fashion In architecture the style has an international following and is currently progressing beyond its experimental roots to make an impact on a broader scale with practices like Zaha Hadid Architects ZHA winning and completing large scale architectural projects worldwide Parametricism implies that all elements and aspects of an architectural composition or product are parametrically malleable and the style owes its original unmistakable physiognomy to its unprecedented use of computational design tools and fabrication methods All design parameters are conceived as variables that allow the design to vary and adapt to the diverse complex and dynamic requirements of contemporary society Although Parametricism has been talked about and hotly debated for a number of years so far there has been no publication dedicated to Parametricism The issue is guest edited by Patrik Schumacher partner at ZHA and one of the world's most highly renowned advocates of Parametricism Contributors Philippe Block Shajay Bhooshan Mark Burry Mario Carpo Manuel DeLanda John Frazer Mark Foster Gage Enriqueta Llabres and Eduardo Rico Achim Menges Theo Spyropoulos Robert Stuart Smith Philip F Yuan Featured architects and designers Arup Mark Fornes THEVERYMANY Zaha Hadid Architects ZHA and Ross Lovegrove

**Architecture in Digital Culture** Socrates Yiannoudes, 2022-12-14 This book examines the manifestations of architecture cities and design processes within digital culture Adopting a comparative and critical method the author looks at past and present encounters of the digital with architectural discourse and practice Along three central themes machines networks and computation the book begins by discussing transformations of the analogy between architecture and the machine since the early twentieth century foregrounding questions about the relations between architecture humans machines and the environment It moves on to the city to observe how big data and smart city sustainable management systems have transformed historical visions of global networked cities Lastly it explores computational design thinking historically and in the context of complex systems as well as the latest technical social and economic developments Exposing possible drawbacks while still focusing on what is radically innovative this book proposes a way toward more liberating digital and sustainable futures for architecture An important read for architecture students academics and professionals this book connects instances of digital architecture practice and discourse throughout the history of the digital culture paradigm and their ties with sociopolitical developments It shares the possibility that these connecting lines may be the canvas for a novel architectural history of the recent past

**Empathy and the Aesthetic Mind** Katerina Bantinaki, Efi Kyprianidou, Fotini Vassiliou, 2025-06-26 Empathy is widely acknowledged as a central if not necessary mechanism for understanding works of art and even as the mode of engagement that mediates art's edifying effects Bringing together 15 essays by established scholars this volume probes the character and role of empathy in our engagement with different forms of art but also the value of such engagement for cognition our emotive life and our moral stance Opening with a historical reconstruction of the origins of the concept of empathy the volume develops in four parts that explore in turn our empathic



engagement with fictional characters the cognitive value of such engagement its relevance for moral agency as well as the thorny issue of empathic engagement with the inanimate in art focusing on music and architecture With an interest in both aesthetics and philosophy of mind the volume provides an in depth discussion of these themes giving careful attention to historical systematic and interdisciplinary perspectives *Space and Spatial Cognition* Michel Denis, 2017-11-13 All living creatures inscribe their activity in space Human beings acquire knowledge of this space by traversing it listening to verbal descriptions and looking at maps atlases and digital media We memorize routes compare distances mentally and retrieve our starting place after a long journey Space and Spatial Cognition provides an up to date introduction to the elements of human navigation and the mental representation of our environment This book explores the mental capacities which enable us to create shortcuts imagine new pathways and thus demonstrate our adaptation to the environment Using a multidisciplinary approach which draws on psychology neuroscience geography architecture and the visual arts the author presents answers to a number of questions Which mental capacities do people mobilize when confronted with space Which brain functions do they implement How do digital technologies extend these capacities By presenting space at the crossroads of a number of disciplines this volume reveals how each of them enhances our understanding of human behaviour in space Space and Spatial Cognition provides a unique insight into all facets of spatial cognition including spatial behaviour language and future technologies It will be the ideal companion for all students and researchers in the field **Made by Robots** Fabio Gramazio, Matthias Kohler, 2014-05-09 Although highly ambitious and sophisticated most attempts at using robotic processes in architecture remain the exception little more than prototypes or even failures at a larger scale This is because the general approach is either to automate existing manual processes or the complete construction process However the real potential of robots remains unexploited if used merely for the execution of highly repetitive mass fabrication processes their capability for serial production of non standard elements as well as for varied construction processes is mostly wasted In order to scale up and advance the application of robotics for both prefabrication and on site construction there needs to be an understanding of the different capabilities and these should be considered right from the start of the design and planning process This issue of AD showcases the findings of the Architecture and Digital Fabrication research module at the ETH Zurich Future Cities Laboratory in Singapore directed by Fabio Gramazio and Matthias Kohler which explores the possibilities of robotic construction processes for architecture and their large scale application to the design and construction of high rise buildings Together with other contributors they also look at the far reaching transformations starting to occur within automated fabrication in terms of liberation of labour entrepreneurship the changing shape of building sites in situ fabrication and most significantly design Contributors Thomas Bock Jelle Feringa Philippe Morel Neri Oxman Antoine Picon and Francois Roche ETH Zurich contributors Michael Budig Norman Hack Willi Lauer and Jason Lim and Raffael Petrovic Future Cities Laboratory Volker Helm Silke Langenberg and Jan Willmann Featured entrepreneurs

Greyshed Machineous Odico Formwork Robotics RoboFold and ROB Technologies **Petit Traité de l'espace** Michel Denis, 2016-09-01 Une approche pluridisciplinaire des représentations de l'espace Tout être vivant inscrit son activité dans l'espace Environnements proches accessibles notre vue environnements lointains villes continents Nous explorons l'espace en le traversant mais aussi en coutant les descriptions qui nous en sont faites en étudiant cartes atlas ou supports numériques Nous mémorisons des itinéraires nous comparons des distances nous retrouvons notre point de départ après un long trajet Nos capacités de raisonnement nous permettent d'imaginer des raccourcis de créer de nouveaux parcours en un mot de manifester notre adaptation l'environnement Les technologies numériques tendent cette capacité en offrant l'individu de nouvelles formes d'assistance au déplacement Ces dispositifs sont particulièrement utiles pour les personnes souffrant de déficits visuels ou encore d'atteintes neurologiques spécifiques Quelles capacités mentales l'individu doit-il mobiliser lorsqu'il est confronté à l'espace Quelles fonctions corporelles met-il en œuvre La psychologie et les neurosciences jouent un rôle primordial pour répondre ces questions comme en témoignent plusieurs chapitres de ce livre Mais un ouvrage consacré à l'espace doit aussi donner leur place à d'autres disciplines concernées par la question la géométrie la géographie l'urbanisme l'architecture la peinture le cinéma etc Les sciences du langage participent elles aussi à ce concert scientifique lorsqu'elles analysent la manière dont l'art littéraire est mis au service de la description de l'espace Enfin les systèmes d'aide à la navigation la robotique la réalité virtuelle constituent des domaines privilégiés d'application des connaissances touchant la représentation de l'espace L'espace est donc au carrefour de nombreuses disciplines Pour la première fois un ouvrage de synthèse sur la manière dont chacune apporte son éclairage la compréhension des conduites de l'être humain au sein de son environnement Cet ouvrage de référence illustre rassemble l'essentiel des savoirs sur l'espace et son influence sur l'individu CE QU'EN PENSE LA CRITIQUE Michel Denis directeur de recherche maître au CNRS a étudié tout au long de sa carrière les processus de représentation mentale mis en œuvre dans l'imagerie visuelle et dans la connaissance de l'espace Ce chercheur en psychologie cognitive livre ici une œuvre magistrale de synthèse portant sur l'espace Il comble ainsi un manque en couvrant l'ensemble des connaissances relatives à l'espace Catherine Didier Fèvre Les Clonautes L'ouvrage de Michel Denis réunit semble-t-il le seul le faire dans la littérature actuelle un grand nombre de données différentes dans une perspective autant que possible commune Claude Debru Ressources signalées par les membres de l'Académie PROPOS DE L'AUTEUR Michel Denis est directeur de recherche maître au CNRS membre du Laboratoire d'informatique pour la mécanique et les sciences de l'ingénieur Orsay France Chercheur en psychologie cognitive il a étudié principalement les processus de représentation mentale mis en œuvre dans l'imagerie visuelle et dans la connaissance de l'espace Il est l'auteur d'environ 200 publications scientifiques dans des journaux et ouvrages internationaux **Empathic Design** Elgin Cleckley, 2024-01-16 How do you experience a public space Do you feel safe Seen Represented The response to these questions may differ based on factors including your race age ethnicity or gender identity In the architecture and design professions decisions about the articulation of public spaces and who may be honored in them

have often been made by white men How do designers rethink design processes to produce works that hold space for the diversity of people using them In Empathic Design designer and architecture professor Elgin Cleckley brings together leaders and visionary practitioners in architecture urban design planning and design activism to help explore these questions Cleckley explains that empathic designers need to approach design as iterative changing and shifting to say we see you we hear you Part of an emerging design framework empathic designers work with and in the communities affected They acknowledge the full history of a place and approach the lived experience and memories of those in the community with respect Early chapters explore broader conceptual approaches proposing definitions of empathy in the context of design disrupting colonial narratives and making space for grief Other chapters highlight specific design projects including the Harriet Tubman Memorial in Newark The Camp Barker Memorial in Washington D C the Freedom Center in Oklahoma City and the Charlottesville Memorial for Peace and Justice Empathic Design provides essential approaches and methods from multiple perspectives meeting the needs of our time and holding space for readers to find themselves Architecture and Interaction Nicholas S. Dalton, Holger Schnädelbach, Mikael Wiberg, Tasos Varoudis, 2016-06-22 Ubiquitous computing has a vision of information and interaction being embedded in the world around us this forms the basis of this book Built environments are subjects of design and architects have seen digital elements incorporated into the fabric of buildings as a way of creating environments that meet the dynamic challenges of future habitation Methods for prototyping interactive buildings are discussed and the theoretical overlaps between both domains are explored Topics like the role of space and technology within the workplace as well as the role of embodiment in understanding how buildings and technology can influence action are discussed as well as investigating the creation of place with new methodologies to investigate the occupation of buildings and how they can be used to understand spatial technologies Architecture and Interaction is aimed at researchers and practitioners in the field of computing who want to gain a greater insight into the challenges of creating technologies in the built environment and those from the architectural and urban design disciplines who wish to incorporate digital information technologies in future buildings

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