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EMPATHIC SPACE

THE COMPUTATION
OF HUMAN-CENTRIC
ARCHITECTURE



Empathic Space The Computation Of Human Centric Architecture Architectural Design

JR Anderson



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 *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 un programmed 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

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

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

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 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 *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

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