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**Nicholas
Negroponte**

Soft Architecture Machines

Keith Evan Green



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Soft Architecture Machines Nicholas Negroponte, 1975 A utopian view of the future relationship between architects and machines Soft Architecture Machines Nicholas Negroponte, 1973 Soft Architecture Machines Nicholas Negroponte, 1975 *Soft Architecture Machines* Nicholas Negroponte, 1975 A utopian view of the future relationship between architects and machines IAAC Bits 10 - Learning Cities Areti Markopoulou, 2023-06-20 The digital intelligence that is inevitably starting to penetrate every aspect of our previously analogue systems of living working or social interacting calls for new models of designing our city and opens new territories of experimentation in the processes related to urban design While the idea of intelligent machines that simulate cognitive functions such as learning or problem solving is not new its extensive use in recent years in the urban design discipline opens up a series of new possibilities as well as plenty of cultural ethical or even aesthetic hesitations and risks How do our cities learn Can machines design and what Is crowd intelligence appropriately harvested in our evolutionary and generative design processes And has our current big data analysis approach reached the limit of human and computational intelligence Learning Cities explores the intelligence applied in the processes and outcomes of designing our urban environments From a variety of applications of artificial intelligence and machine learning for urban planning to co creation processes that merge crowd intelligence with digital technologies Learning Cities highlights that intelligence in the built environment should be understood beyond human object or machinic intelligence alone Through a variety of contributions from experts in different fields the current IAAC Bits Journal Issue explores novel collective intelligence design processes in which designers users the built environment and digital codes all play a fundamental role in a unique resonance that takes place among them With Contributions of Areti Markopoulou Manuel Gausa Jordi Vivaldi Benjamin Bratton John Frazer Molly Wright Steenson Stanislas Chaillou Sarah Williams Theodora Vardouli Neil Leach Angelos Chronis Jos S nchez Mathilde Marengo Aldo Sollazzo Aleksandra Sojka Matias del Campo Chiara Farinea Rodrigo Delso Sandra Maninger Javier Argota Cobus Bothma and others

Computational Models in Architecture Nikola Marinčić, 2019-04-18 This scientific work focuses on computer aided computational models in architecture The author initially investigates established computational models and then expands these with newer approaches to modeling In his research the author integrates approaches to analytical philosophy probability theory formal logic quantum physics abstract algebra computer aided design computer graphics glossematics machine learning architecture and others For researchers in the fields of information technology and architecture **The Routledge Companion to Artificial Intelligence in Architecture** Imdat As, Prithwish Basu, 2021-05-05 Providing the most comprehensive source available this book surveys the state of the art in artificial intelligence AI as it relates to architecture This book is organized in four parts theoretical foundations tools and techniques AI in research and AI in architectural practice It provides a framework for the issues surrounding AI and offers a variety of perspectives It contains 24 consistently

illustrated contributions examining seminal work on AI from around the world including the United States Europe and Asia It articulates current theoretical and practical methods offers critical views on tools and techniques and suggests future directions for meaningful uses of AI technology Architects and educators who are concerned with the advent of AI and its ramifications for the design industry will find this book an essential reference *Architectural Intelligence* Molly Wright Steenson, 2022-11-01 Architects who engaged with cybernetics artificial intelligence and other technologies poured the foundation for digital interactivity In *Architectural Intelligence* Molly Wright Steenson explores the work of four architects in the 1960s and 1970s who incorporated elements of interactivity into their work Christopher Alexander Richard Saul Wurman Cedric Price and Nicholas Negroponte and the MIT Architecture Machine Group all incorporated technologies including cybernetics and artificial intelligence into their work and influenced digital design practices from the late 1980s to the present day Alexander long before his famous 1977 book *A Pattern Language* used computation and structure to visualize design problems Wurman popularized the notion of information architecture Price designed some of the first intelligent buildings and Negroponte experimented with the ways people experience artificial intelligence even at architectural scale Steenson investigates how these architects pushed the boundaries of architecture and how their technological experiments pushed the boundaries of technology What did computational cybernetic and artificial intelligence researchers have to gain by engaging with architects and architectural problems And what was this new space that emerged within these collaborations At times Steenson writes the architects in this book characterized themselves as anti architects and their work as anti architecture The projects Steenson examines mostly did not result in constructed buildings but rather in design processes and tools computer programs interfaces digital environments Alexander Wurman Price and Negroponte laid the foundation for many of our contemporary interactive practices from information architecture to interaction design from machine learning to smart cities *The New Media Reader* Noah Wardrip-Fruin, Nick Montfort, 2003-02-14 A sourcebook of historical written texts video documentation and working programs that form the foundation of new media This reader collects the texts videos and computer programs many of them now almost impossible to find that chronicle the history and form the foundation of the still emerging field of new media General introductions by Janet Murray and Lev Manovich along with short introductions to each of the texts place the works in their historical context and explain their significance The texts were originally published between World War II when digital computing cybernetic feedback and early notions of hypertext and the Internet first appeared and the emergence of the World Wide Web when they entered the mainstream of public life The texts are by computer scientists artists architects literary writers interface designers cultural critics and individuals working across disciplines The contributors include chronologically Jorge Luis Borges Vannevar Bush Alan Turing Ivan Sutherland William S Burroughs Ted Nelson Italo Calvino Marshall McLuhan Jean Baudrillard Nicholas Negroponte Alan Kay Bill Viola Sherry Turkle Richard Stallman Brenda Laurel Langdon Winner Robert Coover and Tim Berners Lee The CD

accompanying the book contains examples of early games digital art independent literary efforts software created at universities and home computer commercial software Also on the CD is digitized video documenting new media programs and artwork for which no operational version exists One example is a video record of Douglas Engelbart's first presentation of the mouse word processor hyperlink computer supported cooperative work video conferencing and the dividing up of the screen we now call non overlapping windows another is documentation of Lynn Hershman's Lorna the first interactive video art installation

Architectural Design Instruments Sébastien Bourbonnais, 2024-06-18 While it is undeniable that architectural practices have been transformed with the advent of digital technologies they nevertheless continue to occupy an ambiguous or even problematic place within the design process The underlying premise of this book on architectural design instruments is not to see them simply as means to an autonomous end one that is pure and detached from any other technological aspect but instead to see these instruments and their formative abilities as a different way in which architects can approach design We maintain that it is through the very act of experimentation with these instruments that their various potentials are revealed and established It is through such repeated experimentation which is constantly being revised and consolidated that practice is successfully and sustainably transformed This view is less of a wish than it is an observation and as such it can be seen in the various practices that are analyzed in this book

The Responsive Environment Larry D. Busbea, 2020-01-21 How new conceptions of human environment interaction became central to design theories and practices in the 1970s At the end of the 1960s new models of responsiveness between humans and their environments had a profound impact on theories and practices in architecture design art technology media and the sciences The resulting initiatives design philosophies art installations architectural projects exhibitions publications and symposia sought to bring together insights from biology systems theory psychology and anthropology with modernist legacies of total design In *The Responsive Environment* Larry D. Busbea takes up this concept of environment as an object and method of design at the height of its aesthetic technical and discursive elaboration Exploring emerging paradigms of environmental perception patterning and control as developed by Gregory Bateson Edward T Hall Wolf Hilbertz Gyrgy Kepes Marshall McLuhan Nicholas Negroponte Paolo Soleri and others he shows how living space itself was reimagined as a domain capable of modification through input from its newly sensitized inhabitants *The Responsive Environment* intercuts the development of new ideas about environmental awareness with case studies of specific architecture and design projects for responsive environments Throughout Busbea connects these theories and practices to the contemporary obsession with smart things responsive technologies intelligent environments biomimetic materials and digital atmospherics

The New Technological Condition Georg Vrachliotis, 2022-10-24 In the era of cybernetics architects suddenly encountered entirely new ways of operating technical systems buildings could be calculated using circuit diagrams creativity and imagination were confronted with the technical intelligence of thinking machines Architects found themselves in the crosshairs of cybernetics At stake was

nothing less than the continued existence of the architect's inventive intelligence in a techno scientific world Today we see computing machines once so heavy losing weight while gaining power Computers are fully colonizing the human environment creating their own digital ecosystems and giving rise to forms of society and ways of being that cannot even be explained without big data Available for the first time in English as a new edition

Computer Mediated Inter- and Intra- Personal Communication, 1976

Architecture's New Media Yehuda E. Kalay, 2004 A comprehensive examination of computer aided architectural design and its potential effect on architectural design practice for practitioners educators students and researchers Computer aided design CAD technology has already changed the practice of architecture and it has the potential to change it even more radically With *Architecture's New Media* Yehuda Kalay offers a comprehensive exposition of the principles methods and practices that underlie architectural computing He discusses the aspects of information technology that are pertinent to architectural design analyzes the benefits and drawbacks of particular computational methods and looks at the potential of emerging computational techniques to affect the future of architectural design CAD technology introduced in the postwar era and adopted in everyday architectural practice beginning in the 1970s is now so indispensable that as William Mitchell observes in his foreword architectural practice without it is as unimaginable as writing without a word processor Yet Kalay argues it has had little qualitative effect This book provides a detailed introduction for practitioners educators students and researchers to aspects of CAD that go beyond the improvements in drafting modeling and rendering for which it is commonly used Computer aided architectural design CAAD is capable of modeling and manipulating objects not merely their graphical representations reasoning about and predicting performance of design solutions generating new design solutions through algorithmic and other methods managing vast amounts of information and taking advantage of opportunities offered by the Internet for collaboration across time and space and for design of the virtual space of the Internet itself *Architecture's New Media* covers five main topics design methods and computer technology and the relationship between computers and design the principles of communication and representation generative design methods the advantages of computational methods for predicting and evaluating the performance of design solutions and current and future developments in technology including collaborative design intelligent design assistants construction automation and virtual design environments

Innovative tools and design strategies.

The case of Eclectic Architecture in Buenos Aires Garrido, Federico Andrés, 2023-05-26 The research deals with a question about Architecture and its design strategies combining historical information and digital tools Design strategies are historically defined they rely on geometry context building technologies and other factors The study of Architecture's own history particularly in the verge of technological advancements like the introduction of new materials or tools may shed some light on how to internalize digital tools like parametric design and digital fabrication

The Smartness Mandate Orit Halpern, Robert Mitchell, 2023-01-10 Over the last half century smartness the drive for ubiquitous computing has become a

mandate a new mode of managing and governing politics economics and the environment Smart phones Smart cars Smart homes Smart cities The imperative to make our world ever smarter in the face of increasingly complex challenges raises several questions What is this smartness mandate How has it emerged and what does it say about our evolving way of understanding and managing reality How have we come to see the planet and its denizens first and foremost as data collecting instruments In *The Smartness Mandate* Orit Halpern and Robert Mitchell radically suggest that smartness is not primarily a technology but rather an epistemology Through this lens they offer a critical exploration of the practices technologies and subjects that such an understanding relies upon above all artificial intelligence and machine learning The authors approach these not simply as techniques for solving problems of calculations but rather as modes of managing life human and other in terms of neo Darwinian evolution distributed intelligences and resilience all of which have serious implications for society politics and the environment The smartness mandate constitutes a new form of planetary governance and Halpern and Mitchell aim to map the logic of this seemingly inexorable and now naturalized demand to compute to illuminate the genealogy of how we arrived here and to point to alternative imaginaries of the possibilities and potentials of smart technologies and infrastructures

Mind as Machine Margaret A. Boden, 2006 The development of cognitive science is one of the most remarkable and fascinating intellectual achievements of the modern era It brings together psychology neuroscience artificial intelligence computing philosophy linguistics and anthropology in the project of understanding the mind by modelling its workings Oxford University Press now presents a masterful history of cognitive science told by one of its most eminent practitioners

Radical Pedagogies Beatriz Colomina, Ignacio G. Galán, Evangelos Kotsioris, Anna-Maria Meister, 2022-05-31 Experiments in architectural education in the post World War II era that challenged and transformed architectural discourse and practice In the decades after World War II new forms of learning transformed architectural education These radical experiments sought to upend disciplinary foundations and conventional assumptions about the nature of architecture as much as they challenged modernist and colonial norms decentered building imagined new roles for the architect and envisioned participatory forms of practice Although many of the experimental programs were subsequently abandoned terminated or assimilated they nevertheless helped shape and in some sense define architectural discourse and practice This book explores and documents these radical pedagogies and efforts to defy architecture's status quo The experiments include the adaptation of Bauhaus pedagogy as a means of unlearning under the conditions of decolonization in Africa a movement to design for every body including the disabled by architecture students and faculty at the University of California Berkeley the founding of a support network for women interested in the built environment regardless of their academic backgrounds and a design studio in the USSR that offered an alternative to the widespread functionalist approach in Soviet design Viewed through their dissolution and afterlife as well as through their founding stories these projects from the last century raise provocative questions about architecture's role in the new century

Design and Construction of

High-Performance Homes Franca Trubiano, 2013-03-05 Both professionals and students are increasingly committed to achieving high performance metrics in the design construction and operation of residential buildings This book responds to this demand by offering a comprehensive guide which features architectural innovations in building skin technologies which make lighter more transparent buildings high performing energy free architectural design principles and advances in building integrated photovoltaics essential engineering principles controls and approaches to simulation for achieving net zero the advantages of integrated design in residential construction and the challenges and opportunities it engenders detailed case studies of innovative homes which have incorporated low energy design solutions new materials alternative building assemblies digital fabrication integrated engineering systems and operational controls Divided into four parts the book discusses the requisite AEC Architecture Engineering and Construction knowledge needed when building a high performance home It also communicates this information across four case studies which provide the reader with a thorough overview of all aspects to be considered in the design and construction of sustainable homes With contributions from experts in the field the book provides a well rounded and multi faceted approach This book is essential reading for students and professionals in design architecture engineering civil mechanical and electrical construction and energy management

Architectural Robotics Keith Evan Green, 2016-02-12 How a built environment that is robotic and interactive becomes an apt home to our restless dynamic and increasingly digital society The relationship of humans to computers can no longer be represented as one person in a chair and one computer on a desk Today computing finds its way into our pockets our cars our appliances it is ubiquitous an inescapable part of our everyday lives Computing is even expanding beyond our devices sensors microcontrollers and actuators are increasingly embedded into the built environment In Architectural Robotics Keith Evan Green looks toward the next frontier in computing interactive partly intelligent meticulously designed physical environments Green examines how these architectural robotic systems will support and augment us at work school and home as we roam interconnect and age Green tells the stories of three projects from his research lab that exemplify the reconfigurable distributed and transfigurable environments of architectural robotics The Animated Work Environment is a robotic work environment of shape shifting physical space that responds dynamically to the working life of the people within it home is a suite of networked distributed robotic furnishings integrated into existing domestic and healthcare environments and LIT ROOM offers a simulated environment in which the physical space of a room merges with the imaginary space of a book becoming a portal to elsewhere How far beyond workstations furniture and rooms can the environments of architectural robotics stretch Green imagines scaled up neighborhoods villages and metropolises composed of physical bits digital bytes living things and their hybrids Not global but local architectural robotics grounds computing in a capacious cyber physical home

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