

Smart Architecture: Integrating Technology and Sustainability



Smart Architecture

Roman Wölfel



Smart Architecture:

Smart Architecture Ed van Hinte, 2003

Smart Architecture - A Sustainable Approach for Transparent Building

Components Design Valentina Frighi, 2021-08-25 This book explores the specific role that glazing technologies play within the world of smart architecture as important components of contemporary and future sustainable architectural and technological research Smart Architecture begins with a definition of the concept of smart in architecture and examines how innovative technologies and materials have shaped buildings over the years The author then provides a supporting database of contemporary smart architecture mapping adopted strategies recognizing common patterns and evaluating current and future trends in the context of smart building envelopes energy efficiency and the development of high potential innovative building components The book proceeds with a focus on the specific role that glazing technologies play in this framework and provides a systematic methodology to quantify options for the effective integration of transparent building components within advanced and innovative building envelope systems

The Routledge Companion to Smart Design Thinking in

Architecture & Urbanism for a Sustainable, Living Planet Mitra Kanaani, 2024-11-11 This comprehensive companion surveys intelligent design thinking in architecture and urbanism investigates multiple facets of smart approaches to design thinking that augment the potentials of user experiences as well as his her physical and mental interactions with the built environment Split into six paradigms this volume looks at the theoretical and historical background of smart design smart design methodologies and typologies smart materials smart design for extreme weather and climatic regions as well as climate change issues and side effects smart mobility and the role of digital technologies and simulations in architectural and urban design Often at odds with each other this volume places emphasis on smart design for various typologies and user groups emphasizing on advancements in form making and implementation of technology for healthy and sustainable living environments Written by emerging and established architects planners designers scientists and engineers from around the globe this will be an essential reference volume for architecture and urban design students and scholars as well as those in related fields interested in the implications various facets and futures of smart design

Eco-architecture C. A.

Brebbia, 2006 Unlike the mechanistic buildings it replaces Eco Architecture is in harmony with nature including its immediate environs Eco Architecture makes every effort to minimise the use of energy at each stage of the building's life cycle including that embodied in the extraction and transportation of materials their fabrication their assembly into the building and ultimately the ease and value of their recycling when the building's life is over Featuring papers from the First International Conference on Harmonisation between Architecture and Nature the text brings together papers of an interdisciplinary nature and will be of interest to engineers planners physicists psychologists sociologists economists and other specialists in addition to architects Featured topics include Historical and Philosophical aspects Ecological and Cultural Sensitivity Human Comfort and Sick Building Syndrome Energy Crisis and Building Technologies Carbon Neutral Design

Alternative Sources of Energy wind solar wave geothermal etc Design with Nature Design with Climate Siting and Orientation Re use of Brownfield Sites Material Selection Minimal Transportation Approaches and use of Indigenous Materials Life Cycle Assessment of Materials Design by Passive Systems Conservation and Re use of Water Building Operation and Management Applications in Different Building Types Regulations and Contracts **Internet of Things: Architectures for Enhanced Living Environments** Goncalo Marques,2024-02-07 Advances in Computers Volume presents innovations in computer hardware software theory design and applications with this updated volume including new chapters on Contains novel subject matter that is relevant to computer science Includes the expertise of contributing authors Presents an easy to comprehend writing style **Wireless Technology, Intelligent Network Technologies, Smart Services and Applications** Lakhmi C. Jain,Roumen Kountchev,Bin Hu,Roumiana Kountcheva,2021-11-26 This book gathers selected papers presented at the 4th International Conference on Wireless Communications and Applications ICWCA 2020 held at Hainan University China The second volume will involve research works aimed at the contemporary applications emerging wireless mobile applications context and location aware wireless services wireless telemedicine and e health services intelligent transportation systems RFID technology and application cognitive radio and sensor based applications content distribution in wireless home environment and many others e-Learning, e-Education, and Online Training Shuai Liu,Guanglu Sun,Weina Fu,2020-12-11 This 2 volume set constitutes the proceedings of the 6th International Conference on e Learning e Education and Online Training eLEOT 2020 held in Changsha China in June 2020 The conference was held virtually due to the COVID 19 pandemic The 68 full papers presented were carefully reviewed and selected from 141 submissions They focus on most recent and innovative trends and new technologies in for educational modernization such as artificial intelligence and big data The theme of eLEOT 2020 was Education with New Generation Information Technology

Building Embodied AI Systems: The Agents, the Architecture Principles, Challenges, and Application Domains Pethuru Raj,Alvaro Rocha,Simar Preet Singh,Pushan Kumar Dutta,B. Sundaravadivazhagan,2025-01-18 This book is primed to demystify the emerging and evolving trend of embodied systems It explains how these unique systems facilitate establishing smarter environments such as multi specialty hospitals manufacturing floors warehouses retail stores defense zones eating joints entertainment plazas etc in detail for the benefit of our esteemed readers To get a complete and actionable understanding of any mission critical environment we must deploy embodied systems These systems such as robots drones etc are physical entities that are embedded and empowered with software systems They interact with the environment in real time providing context aware services There are chapters exclusively delineating the technologies behind the realization and deployment of such enigmatic systems The prominent industrial use cases are explained in the latter chapters

Immersive Technology in Smart Cities Sagaya Aurelia,Sara Paiva,2021-07-07 This book presents recent trends and enhancements in the convergence of immersive technology and smart cities The authors discuss various domains such as

medical education construction brain interface interactive storytelling edification and journalism in relation to combining smart cities IoT and immersive technologies The book sets up a medium to promulgate insights and in depth understanding among experts in immersive technologies IoT HCI and associated establishments The book also includes case studies survey models algorithms frameworks and implementations in storytelling smart museum medical education journalism and more Various practitioners academicians and researchers in the domain contribute to the book

Intelligent Computing on IoT 2.0, Big Data Analytics, and Block Chain Technology Mohammad S. Obaidat, Padmalaya Nayak, Niranjana K. Ray, 2024-05-23 The book is designed as a reference text and explores the concepts and techniques of IoT artificial intelligence AI and blockchain It also discusses the possibility of applying blockchain for providing security in various domains The specific highlight of this book is focused on the application of integrated technologies in enhancing data models better insights and discovery intelligent predictions smarter finance smart retail global verification transparent governance and innovative audit systems The book discusses the potential of blockchain to significantly increase data while boosting accuracy and integrity in IoT generated data and AI processed information It elucidates definitions concepts theories and assumptions involved in smart contracts and distributed ledgers related to IoT systems and AI approaches The book offers real world uses of blockchain technologies in different IoT systems and further studies its influence in supply chains and logistics the automotive industry smart homes the pharmaceutical industry agriculture and other areas It also presents readers with ways of employing blockchain in IoT and AI helping them to understand what they can and cannot do with blockchain The book is aimed primarily at advanced undergraduates and graduates studying computer science computer engineering electrical engineering information systems computational sciences artificial intelligence and information technology Researchers and professionals will also find this book very useful

Smart Architecture Book Review: Unveiling the Power of Words

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