

POST-PARAMETRIC
AUTOMATION
IN DESIGN AND CONSTRUCTION

ALFREDO ANDIA • THOMAS SPIEGELHALTER

Post Parametric Automation In Design And Construction

Liying Dong



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Post-Parametric Automation in Design and Construction Alfredo Andia, Thomas Spiegelhalter, 2014-11-01
Automation a mixture of algorithms robots software and avatars is transforming all types of jobs and industries This book responds to one critical question for the design and construction industry how are architects engineers and contractors using information technology to further automate their practices Addressing the use of new digital technologies particularly parametric automation for design and construction in the building industry this book looks at how technologically advanced architectural and engineering practices are semi automating their design processes by using sophisticated algorithms to transform their workflows The book also documents a set of firms that are further advancing automation by using pre fabrication modularization and custom designs via robotics

Analog to AI Futures: Pioneering SynBio Nexus Design Thomas Spiegelhalter, 2025-02-03 T00:00:00+01:00 1098 2 80

Handbook of Research on Visual Computing and Emerging Geometrical Design Tools Amoroso, Giuseppe, 2016-04-11 Visual computing and descriptive geometry are multidisciplinary fields addressing the handling of images 3D models and other computer graphics These ideas are experiencing a revival due to emergent technologies and applications available to developers Based in traditional forms of design and architecture these fields are currently experiencing a bounty of new research based on old principles The Handbook of Research on Visual Computing and Emerging Geometrical Design Tools seeks to add to this knowledge base by considering these technologies from a designer s perspective rather than reiterating the principles of computer science It combines aspects of geometry and representation with emerging tools for CAD generation and visualization while addressing the digital heritage of such fields This book is an invaluable resource for developers students of both graphic and computer generated design researchers and designers

Designing Sustainable and Resilient Cities Alessandro Melis, Julia Brown, Claire Coulter, 2022-07-27 This book explores the link between the Food Water Energy nexus and sustainability and the extraordinary value that small tweaks to this nexus can achieve for more resilient cities and communities Using data from Urban Living Labs in six participating cities Eindhoven Gda sk Miami Southend on Sea Taipei and Uppsala to co define context specific challenges the results from each city are collated into an Integrated Decision Support System to guide and improve robust decision making on future urban development The book presents contributions from CRUNCH a transdisciplinary team of scholars and practitioners whose expertise spans urban climate modelling food water and energy management the design of resilient public space collecting better urban data and the development of smart city technology Whilst previous works on the Food Water Energy nexus have focused on large transnational cases this book explores local ways to use the Food Water Energy nexus to improve urban resilience It suggests tangible ways in which the cities and communities around us can become both more efficient and more climate resilient through small changes to their existing infrastructure Over half of the world s population lives in urban areas and this is expected to increase to 68% by 2050 We

urgently need to make our cities more resilient This book provides a planning tool for decision making and concludes with policy recommendations making it relevant to a range of audiences including urbanists environmentalists architects urban designers and city planners as well as students and scholars interested in alternative approaches to sustainability and resilience Chapter 2 of this book is freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

Computational and Manufacturing Strategies Andrea Quartara, Djordje Stanojevic, 2018-08-11 This book highlights computationally enabled and digitally fabricated strategies used in the design of a series of full size wooden structures It introduces theoretical foundations and then focuses on the possibilities that have emerged as a result of the material aware processes The case studies expound wood as one of the most suitable materials to experience the seamless framework introduced with the digital design to construction chain Two main aspects of the pavilions constructed developed in various international academic groups are considered On one hand the case studies explore tolerances of raw and engineered material intertwined with machine processing they also address material enhancement through strip applications in timber construction In addition the structures are examined in the light of an extensible designing path which acts as an interoperable procedure bridging the virtual and the real

Digital Wood Design Fabio Bianconi, Marco Filippucci, 2019-02-24 This book explores various digital representation strategies that could change the future of wooden architectures by blending tradition and innovation Composed of 61 chapters written by 153 authors hailing from 5 continents 24 countries and 69 research centers it addresses advanced digital modeling with a particular focus on solutions involving generative models and dynamic value inherent to the relation between knowing how to draw and how to build Thanks to the potential of computing areas like parametric design and digital manufacturing are opening exciting new avenues for the future of construction The book's chapters are divided into five sections that connect digital wood design to integrated approaches and generative design to model synthesis and morphological comprehension to lessons learned from nature and material explorations to constructive wisdom and implementation related challenges and to parametric transfigurations and morphological optimizations

Robotic Systems: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2020-01-03 Through expanded intelligence the use of robotics has fundamentally transformed a variety of fields including manufacturing aerospace medicine social services and agriculture Continued research on robotic design is critical to solving various dynamic obstacles individuals enterprises and humanity at large face on a daily basis Robotic Systems Concepts Methodologies Tools and Applications is a vital reference source that delves into the current issues methodologies and trends relating to advanced robotic technology in the modern world Highlighting a range of topics such as mechatronics cybernetics and human computer interaction this multi volume book is ideally designed for robotics engineers mechanical engineers robotics technicians operators software engineers designers programmers industry professionals researchers

students academicians and computer practitioners seeking current research on developing innovative ideas for intelligent and autonomous robotics systems

Design Computing Brian Johnson, 2016-11-18 Design Computing will help you understand the rapidly evolving relationship between computing designers and the many different environments they create or work in The book introduces the topic of design computing and covers the basics of hardware and software so you don't need to be an expert Topics include the fundamentals of digital representation programming and interfaces for design the shifting landscape of opportunity and expectation in practice and pedagogy placing sensors in buildings to measure performance and the challenge of applying information effectively in design The book also includes additional reading for those who wish to dig deeper into the subject Design Computing will provide you with a greater awareness of the issues that permeate the field opportunities for you to investigate and perhaps motivation to push the boundaries

City Networks Athanasia Karakitsiou, Athanasios Migdalas, Stamatina Th. Rassia, Panos M. Pardalos, 2017-12-05 Sustainable development within urban and rural areas transportation systems logistics supply chain management urban health social services and architectural design are taken into consideration in the cohesive network models provided in this book The ideas methods and models presented consider city landscapes and quality of life conditions based on mathematical network models and optimization Interdisciplinary Works from prominent researchers in mathematical modeling optimization architecture engineering and physics are featured in this volume to promote health and well being through design Specific topics include Current technology that form the basis of future living in smart cities Interdisciplinary design and networking of large scale urban systems Network communication and route traffic optimization Carbon dioxide emission reduction Closed loop logistics chain management and operation Modeling the effect urban environments on aging Health care infrastructure Urban water system management Architectural design optimization Graduate students and researchers actively involved in architecture engineering building physics logistics supply chain management and mathematical optimization will find the interdisciplinary work presented both informative and inspiring for further research

Transdisciplinary Engineering for Complex Socio-technical Systems - Real-life Applications Jerzy Pokojski, Maciej Gil, Linda Newnes, Nel Wognum, 2020-10-15 Transdisciplinary engineering transcends other inter and multi disciplinary ways of working such as Concurrent Engineering CE In particular transdisciplinary processes are aimed at solving complex ill defined problems or problems for which the solution is not immediately obvious No one discipline or single person can provide sufficient knowledge to solve such problems so collaboration is essential This book presents the proceedings of the 27th ISTE International Conference on Transdisciplinary Engineering organized by Warsaw University of Technology Poland from 1-10 July 2020 ISTE2020 was the first of this conference series to be held virtually due to the COVID 19 restrictions Entitled Transdisciplinary Engineering for Complex Socio technical Systems Real life Applications the book includes 71 peer reviewed papers presented at the conference by authors from 17 countries These range from theoretical and conceptual to strongly

pragmatic and addressing industrial best practice and together with invited talks they have been collated into 9 sections Transdisciplinary Engineering 7 papers Transdisciplinary Engineering Education 4 papers Industry 4.0 Methods and Tools 7 papers Human centered Design 8 papers Methods and Tools for Design and Production 14 papers Product and Process Development 9 papers Knowledge and Data Modeling 13 papers Business Process and Supply Chain Management 7 papers and Sustainability 2 papers The book provides an overview of new approaches methods tools and their applications as well as current research and development and will be of interest to researchers design practitioners and educators working in the field

Development and Investment in Infrastructure in Developing Countries: A 10-Year Reflection Innocent Musonda,Erastus Mwanaumo,Adetayo Onososen,Retsepile Kalaoane,2024-12-20 Development and Investment in Infrastructure in Developing Countries A 10 Year Reflection includes the contributions to the 10th International Conference on Development and Investment In infrastructure DII 2024 Livingstone Zambia 24-26 July 2024 The papers discuss evaluate and devise ways of maximising the benefits of infrastructure development and achieve outputs that will inform policy and wider development goals This Open Access book is invaluable to leaders researchers practitioners and stakeholders involved or interested in infrastructure development in developing countries

Transforming Issues in Housing Design Kutay Guler,2023-11-30 TRANSFORMING ISSUES IN HOUSING DESIGN A practical and complete resource for students researchers and practitioners of housing design Transforming Issues in Housing Design delivers a comprehensive vision for the design philosophy psychology efficiency and constitution of housing This collection of articles explores many of the most pressing and relevant issues related to the ongoing transformation of housing design Twenty two contributed chapters discuss the past and current state of housing design how it evolved to become what it is today and finally how it may unfold in the future A team of global experts presents the most up to date research and a diverse and illuminating collection of examples to highlight housing design around the world Readers will also find A thorough introduction to modern housing design and how it relieves and contributes to various social and economic problems Insightful explorations of the built environment interior architecture urban design sustainable living space planning and more Practical discussions of a theoretical framework to make sense of housing design concepts Complete treatments of concepts research and built projects from a diverse range of communities and cultures Perfect for architects and students of urban studies interior design and architecture Transforming Issues in Housing Design will also benefit those who design research and teach housing

Circular Economy for the Built Environment Rabia Charef,2024-06-03 This book provides an overview of the circular economy in the built environment presenting a fusion of insights from esteemed researchers and seasoned practitioners The chapters cover pivotal themes including the transformative concept of buildings as material banks innovative design approaches and the potential of digitalization for a circular built environment Beyond these foundational themes the book critically addresses the integration of low tech solutions and some principles of sobriety in the built environment It also takes

an informed look at the role of standardization providing nuanced insights into its driving influence on circular practices and the associated challenges and opportunities The book adopts a trans scalar perspective by traversing the entire spectrum of building phases from initial programming to the recovery phase as well as from the scale of materials to the scale of buildings offering a profound examination of the intricate dynamics involved in the offer demand for recovered materials This book highlights the paramount need to harmonize research with practical applications By spotlighting effective circular practices and elucidating the challenges faced by practitioners it identifies fertile grounds for further research Moreover the book extends its reach by offering practical ideas on how practitioners can seamlessly adopt a circular approach in both thought and realization Circular Economy for the Built Environment Research and Practice is a must read book for students researchers academics and practitioners in the fields of architecture planning engineering construction and real estate This book provides a compelling narrative that bridges the theoretical and practical realms of the circular economy in the built environment

Graphic Horizons Luis Hermida González, João Pedro Xavier, Antonio Amado Lorenzo, Ángel J. Fernández-Álvarez, 2024-03-27 This book reports on several advances in architectural graphics with a special emphasis on education training and architectural production It gathers a selection of contributions to the 20th International Congress of Architectural Graphic Expression EGA 2024 held on May 27 29 2024 in Porto Portugal with the motto Graphic Horizons This is the second of a 3 volume set

Engineering Materials, Structures, Systems and Methods for a More Sustainable Future Alphose Zingoni, 2025-08-07 Engineering Materials Structures Systems and Methods for a More Sustainable Future comprises 275 papers that were presented at SEMC 2025 the Ninth International Conference on Structural Engineering Mechanics and Computation This event held in Cape Town South Africa from 1 to 3 September 2025 was attended by around 300 participants from 42 countries worldwide The Proceedings are divided into 15 sections The various topics may be grouped into five broad categories covering i the mechanics of materials solids and structures ii numerical modelling computational simulations and experimental testing iii analysis design and construction in the traditional engineering materials iv innovative engineering materials structures and methods v maintenance long term performance life cycle considerations and sustainable construction Engineering Materials Structures Systems and Methods for a More Sustainable Future will be of interest to civil structural mechanical marine and aerospace engineers as well as planners and architects Two versions of the papers are available full papers of length six pages are included in the e book while short papers of length two pages intended to be concise but self contained summaries of the full papers are in the printed book

Navigating AI and the Metaverse in Scientific Research Al Aqad, Mohammed H., Sorayyaei Azar, Ali, Albattat, Ahmad, Singh, Amrik, 2025-04-24 The rapid advancements in artificial intelligence AI and the emergence of the metaverse have transformed various fields of research offering unprecedented opportunities for innovation collaboration and exploration These technologies have enabled researchers to simulate complex phenomena analyze large datasets with

precision and create immersive environments for experimental studies As AI algorithms continue to evolve and the metaverse becomes more accessible the scientific community is poised to leverage these tools to push the boundaries of traditional research methodologies However this paradigm shift also introduces new challenges including ethical concerns data security and the need for interdisciplinary expertise Navigating AI and the Metaverse in Scientific Research raises questions about data privacy algorithmic bias and the ethical implications of automated decision making It explores how AI and the metaverse can be leveraged for research and development in various sectors and assesses the implications of these technologies on research ethics education and public policy Covering topics such as academic standards personalized learning experiences and research integrity this book is an excellent resource for industry practitioners policymakers educators professionals researchers scholars academicians and more

New Frontiers of Construction Management

Marco Alvisé Bragadin, Kalle Kähkönen, Emlyn Witt, 2025-06-02 This book comprises the select proceedings of the 3rd Construction Management Workshop CMW 24 New Frontiers of Construction Management held in Ravenna Italy on November 7 8 2024 It highlights key research topics that could be drivers of change and innovation in the management of the construction and building processes in its various stages including design construction operation and maintenance disposal and reuse It represents a contribution to the debate and an introduction to new methods and tools addressing building production and management The contributions focus on the use of methodologies for Construction Project Management especially those that have witnessed recent developments because of the digitalization of building processes the use of Artificial Intelligence and the search for environmental sustainability Topics include AI and Digitalization of building processes Building Information Modelling and Built Heritage Construction Project Management and Lean Construction Off site Construction Occupational Health and Safety management Environmental impacts Circular Economy Low carbon Life Cycle Assessment in construction projects

Structures and Architecture Paulo J. Cruz, 2013-06-27

Although the disciplines of architecture and structural engineering have both experienced their own historical development their interaction has resulted in many fascinating and delightful structures To take this interaction to a higher level there is a need to stimulate the inventive and creative design of architectural structures and to persuade

Universal Principles of

Architecture WAI Architecture Think Tank, Cruz Garcia, Nathalie Frankowski, 2023-10-10 Take an expansive and provocative tour of architectural theory and practice exploring everything from basic concepts to speculative design and subversive interventions Universal Principles of Architecture illustrates in 100 concepts the importance possibilities challenges and roles that architecture plays in shaping the world This radical and perhaps surprising survey is divided into five sections Archetypes Methods Conditions Relationships and Imaginaries And each of the five sections in the book introduces in 20 principles architecture at different scales and stages of the design process Through an inclusive and holistic approach the book refers to initial design ideas creative design approaches reflections on the effects of the built and destroyed

environments and architectural desires and aspirations to transform the world and engage with the cosmos Because architecture is the converging point where many fields of knowledge ideas forms approaches methods sensibilities and materials meet the book provides a flexible and dynamic space where the material conceptual and social take shape Written illustrated and designed by critically acclaimed architects educators and authors Cruz Garcia and Nathalie Frankowski of WAI Architecture Think Tank Universal Principles of Architecture combines accessible writing with otherworldly images like the ones they have displayed in exhibitions at the Centre Pompidou Metz Museum of Modern Art New York Neues Museum Nuremberg and Museum of Art Architecture and Technology Lisbon The principles include Figurative Archetypes Parasitic Architecture Diagramming Modelling Three Dimensional Printing Carbon Neutral Biomimicry Inclusive Design Participatory Design AI Cities Queer Cartographies Intergalactic Architecture Intended as an intergenerational and transdisciplinary reference volume the book presents an ambitious overview of what architecture has been and can be in a world full of urgent challenges and abundant opportunities for social and ecological responsibility and design creativity This book will challenge your preconceived notions of what architecture is and how it can be used The titles in the Rockport Universal series offer comprehensive and authoritative information and edifying and inspiring visual examples on multidisciplinary subjects for designers architects engineers students and anyone who is interested in expanding and enriching their design knowledge

BIM Handbook Rafael Sacks, Charles Eastman, Ghang Lee, Paul Teicholz, 2018-08-14 Discover BIM A better way to build better buildings Building Information Modeling BIM offers a novel approach to design construction and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format BIM is beginning to change the way buildings look the way they function and the ways in which they are designed and built The BIM Handbook Third Edition provides an in depth understanding of BIM technologies the business and organizational issues associated with its implementation and the profound advantages that effective use of BIM can provide to all members of a project team Updates to this edition include Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working national and major construction clients BIM standards and guides A discussion on how various professional roles have expanded through the widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information modeling the BIM Handbook Third Edition guides readers to successful implementations helping them to avoid needless frustration and costs and take full advantage of this paradigm shifting approach to construct better buildings that consume fewer materials and require less time labor and capital resources

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