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Niloy J. Mitra · Wenping Wang *Editors*

Advances in Architectural Geometry 2014

 Springer

Advances In Architectural Geometry 2014

**Catherine De Wolf, Sultan Çetin, Nancy
M. P. Bocken**



Advances In Architectural Geometry 2014:

Advances in Architectural Geometry 2014 Philippe Block, Jan Knippers, Niloy J. Mitra, Wenping Wang, 2014-12-26 This book contains 24 technical papers presented at the fourth edition of the Advances in Architectural Geometry conference AAG 2014 held in London England September 2014 It offers engineers mathematicians designers and contractors insight into the efficient design analysis and manufacture of complex shapes which will help open up new horizons for architecture The book examines geometric aspects involved in architectural design ranging from initial conception to final fabrication It focuses on four key topics applied geometry architecture computational design and also practice in the form of case studies In addition the book also features algorithms proposed implementation experimental results and illustrations Overall the book presents both theoretical and practical work linked to new geometrical developments in architecture It gathers the diverse components of the contemporary architectural tendencies that push the building envelope towards free form in order to respond to multiple current design challenges With its introduction of novel computational algorithms and tools this book will prove an ideal resource to both newcomers to the field as well as advanced practitioners

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

Robotic Fabrication in Architecture, Art and Design 2016 Dagmar Reinhardt, Rob Saunders, Jane Burry, 2016-02-03 The book presents the proceedings of Rob Arch 2016 the third international conference on robotic fabrication in architecture art and design The work contains a wide range of contemporary topics from methodologies for incorporating dynamic material feedback into existing fabrication processes to novel interfaces for robotic programming to new processes for large scale automated construction The latent argument behind this research is that the term file to factory must not be a reductive celebration of expediency but instead a perpetual challenge to increase the quality of feedback between design matter and making

A Circular Built Environment in the Digital Age Catherine De Wolf, Sultan Çetin, Nancy M. P. Bocken, 2024-01-03 This open access book offers a comprehensive exploration of the digital innovations that have emerged in recent years for the circular built environment Each chapter is meticulously crafted to ensure that both academic readers and industry practitioners can grasp the inner workings of each

digital technology understand its relevance to the circular built environment examine real life implementations and appreciate the intriguing business models behind them Our primary objective is to blend scholarly knowledge with practical inspiration by providing real life case studies for each innovation The authors who possess extensive expertise in their respective fields have contributed chapters dedicated to digital technologies within their areas of specialization The book is organized into three distinct parts The first part focuses on data driven digital technologies and delves into how their capabilities can facilitate the transition to a circular built environment Essential aspects such as building information modeling BIM digital twins geographical information systems GIS scanning technologies artificial intelligence AI data templates and material passports are explored as vital tools for data collection integration and analysis in the context of circular construction In the second part various digital technologies for design and fabrication are introduced Topics covered include computational design algorithms additive and subtractive manufacturing robotic manufacturing and extended reality These discussions shed light on how these technologies can be leveraged to enhance design and fabrication processes within the circular built environment Finally the last part of the book presents emerging digital concepts related to business and governance It explores the role of deconstruction and reverse logistics blockchain technology digital building logbooks and innovative business models as enablers of circularity in the built environment The book concludes with a chapter dedicated to digital transformation and its potential to propel the built environment towards a regenerative future In addition to the substantive content the book features forewords and perspectives from esteemed experts providing valuable economic and creative insights to complement its comprehensive approach

Technological Paradigms and Digital Eras Giacomo Chiesa, 2019-07-24 The book connects the ICT and the architectural worlds analyzing modeling materialization and data driven visions for design issues at different scales Furthermore using sample modeling and materialization tools it explores the links between performance driven design approaches and the application of new digital technologies Intended for architects and urbanists it provides a theoretical framework to address the implications of the digital revolution in building design and operation Furthermore combining insights from IT and ICT with architectural and urban design know how it offers engineering professionals a technology driven interpretation of the building design field

Architecture Research Building Achim Menges, Jan Knippers, 2020-12-07 How can the fundamental digital change taking place in design and construction be actively used to bring about cultural change in architecture By exploring robotic production methods and innovative material developments Achim Menges and Jan Knippers have succeeded in developing genuine digital building systems that combine architectural elegance with effective construction The book provides an insight into ten years of joint research at the ICD and ITKE Institutes of Stuttgart University Taking completed pavilions and buildings as examples the authors demonstrate the viability of the underlying hypotheses that impressively push the limits of construction Articles from international experts contribute to the current debate on architecture

Research Culture in Architecture Cornelia

Leopold, Christopher Robeller, Ulrike Weber, 2019-12-16 Research in and on architecture is as complex as the discipline itself with its different specialist fields and therefore the results often remain unconnected Research Culture in Architecture combines digital and analog research issues and demonstrates how important cross disciplinary cooperation in architecture is today The complexity and increasing specialization are elaborated on in the various chapters and then linked to the core of architecture i e design Scientists from the theoretical and practical fields present research results in the following subjects design methodology architectural space perception and the human body analog and digital timber construction visualization robotics architectural practice and research and sustainability *Fabricate* Achim Menges, Bob Sheil, Ruairi Glynn, Marilena Skavara, 2017-04-03 Bringing together pioneers in design and making within architecture construction engineering manufacturing materials technology and computation Fabricate is a triennial international conference now in its third year ICD University of Stuttgart April 2017 The 2017 edition features 32 illustrated articles on built projects and works in progress from academia and practice including contributions from leading practices such as Foster Partners Zaha Hadid Architects Arup and Ron Arad and from world renowned institutions including ICD Stuttgart Harvard Yale MIT Princeton University The Bartlett School of Architecture UCL and the Architectural Association Each year it produces a supporting publication to date the only one of its kind specialising in Digital Fabrication Sheet Metal 2015 M. Merklein, Joost R. Duflo, Alan G. Leacock, Fabrizio Micari, Hinnerk Hagenah, 2015-03-20 Selected peer reviewed papers from the 16th International Conference on Sheet Metal SheMet 2015 March 16 18 2015 Erlangen N rnberg Germany SUDU: Research Dirk E. Hebel, Melakeselam Moges, Zara Gray, Something Fantastic (Firm), 2015 Recapitulating SUDU s idiosyncratic construction process in two lavishly illustrated volumes this publication details the building techniques employed such as rammed earth mud bricks and timber vaulting The first volume additionally explores the history of Ethiopian architecture the postcolonial nature of its current construction industry and the challenges of the country s rapid urbanization The second volume a manual with more than 600 detailed drawings and instructions demonstrates how to build a house step by step with the most readily available building material earth Back cover Science and Engineering 2015 Anna Krawczyńska-Piechna, Wojciech Kubissa, Marcin Przedlacki, Krzysztof J. Wołosz, 2015-11-17 Selected peer reviewed papers from the International Conference The Young for Science Engineering 2015 November 5 6 2015 P ock Poland Directory of Published Proceedings, 1990 *Structural Engineering Handbook, Fifth Edition* Mustafa Mahamid, Edwin H. Gaylord, Charles N. Gaylord, 2020-04-17 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product The industry standard guide to structural engineering fully updated for the latest advances and regulations For 50 years this internationally renowned handbook has been the go to reference for structural engineering specifications codes technologies and procedures Featuring contributions from a variety of experts the book has been revised to align with the codes that govern

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Scientific and Technical Books in Print,1972 Forthcoming Books Rose Arny,1998 *Metals Abstracts* ,1968 *Occupational Outlook Handbook, 2006-2007 edition* United States Department of Labor,2005-12-06 Occupational Outlook Handbook has the most authoritative career data available compiled by the U D government and is fully updated every two years With record numbers of students graduating from college there is a need for comprehensive up to date career information Related occupations included in each listing introduces readers to other jobs of possible interest

Architectural Geometry Helmut Pottmann,2007 Architectural Geometry is the first book to introduce a revolutionary new approach to design Geometry lies at the core of the architectural design process It is omnipresent from the initial form finding stages to the actual construction Modern constructive geometry provides a variety of tools for the efficient design analysis and manufacture of complex shapes This results in new challenges for architecture However the architectural application also poses new problems to geometry Architectural geometry is therefore an entire research area currently emerging at the border between applied geometry and architecture Written for students architects construction engineers and industrial designers Architectural Geometry is a source of inspiration for scientists interested in applications of geometry processing in architecture and art With over 700 pages including 2 100 full color images of built architecture architectural projects and artwork Architectural Geometry takes readers from basic to advanced geometry then leads them to the cutting edge of research in the architectural geometry field

The Big Book of Jobs United States Department of Labor,2006-09 Offers comprehensive information on top jobs and job search techniques from the United States Department of Labor From building career management skills and writing resumes to exploring working conditions and salary ranges of 250 career possibilities this volume provides you with the tools required for an effective job search *Whitaker's Books in Print* ,1998

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