

Simulation in Architectural Research

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Abstract: In the new world of architectural research, technology has a main role to play. It is technology that has made possible the creation of a virtual world that triggers inferences and helps in drawing conclusions from facts and findings. This paper focuses on one of the research processes, i.e., 'Architectural Simulation Research,' which is often more analytical, pragmatic and adaptable in the forthcoming generation of architectural research. Architectural Simulation can be classified into drawings, photographs and different scale-models. This research can be executed in many ways on lines similar to the conventional 'Logical Argumentation,' 'Experimental Research' and, 'Qualitative Research'. The paper also focuses on the tactical part of different categories of simulation research which deal with the characteristics of simulation types.

Keywords: Simulation; Architectural Research; Architectural Photographs; Architectural Models

1. INTRODUCTION

Simulation occurs when a replication of a real world context, or a hypothesised real world context, contains within it dynamic interactions that are a result of various manipulated factors. The interactions are reflective of the interactions occurring in the virtual world, and are useful for application into the real world context (Groat & Wang, 2013). In simple terms, simulation is a process through which one can study and analyse the real world scenario by creating a virtual world. It may be achieved by minimising scale in the real world, or may be digitally created by software. There are factors to be considered during the process of simulation as it proposes a virtual reality. For example, it can predict the possible solutions that are effective in mitigating natural hazards like earthquakes, tsunami, etc. so as to estimate probable threats. It can also provide different types of analytical tools and interpretation interface for accuracy in simulation while dealing with various scales and complexities. Computer technology can also help in material testing by virtual simulation like fire-fighting, wind factor analysis, climatic change and, temperature regulation inside as well as outside the building. (Fraser, 2013).

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Architectural Research Paper Example

Jeffrey W. Cody



Architectural Research Paper Example:

Architectural Research Methods Linda N. Groat, David Wang, 2002-02-11 This work offers a survey of architectural research methods tools of technical aesthetic and environmental behavioural inquiry that go into the creation of the built information It covers methods such as quantitative and qualitative analysis

A Guide to Socially-Informed Research for Architects and Designers Michelle Janning, 2022-12-09 This book offers an efficient set of step by step tips and overarching lessons about how to gather useful meaningful and socially informed data about clients and other stakeholders experiences in architecture and interior design professions In this guide author Michelle Janning helps the design professional conduct ongoing evaluation of design projects create useful pre and post design evaluations frame effective questions for improved future design involve various stakeholders in the research process and focus on responsible and evidence based human centered design to improve the relationship between design and people s experiences Examining a variety of both large and small scale project examples from different institutional realms including healthcare sites schools residences eating establishments museums and theaters this book highlights not only the overlap in these types of projects but also the differences between project sizes that may impact the methods used in any given project It also offers tools for how to communicate design success to audiences that include potential clients occupants and other designers A Guide to Socially Informed Research for Architects and Designers is a go to reference for design professionals interested in using accessible social scientific methods to gather essential and practical information from people who occupy the spaces they design and to do so in an ethical inclusive and socially informed way in order to enhance social sustainability in the built environment

Architectural Research Addressing Societal Challenges Volume 2 Manuel Jorge Rodrigues Couceiro da Costa, Filipa Roseta, Susana Couceiro da Costa, Joana Pestana Lages, 2017-09-19 The EAAE ARCC International Conference held under the aegis of the EAAE European Association for Architectural Education and of the ARCC Architectural Research Centers Consortium is a conference organized every other year in collaboration with one of the member schools universities of those associations alternatively in North America or in Europe The EAAE ARCC Conferences began at the North Carolina State University College of Design Raleigh with a conference on Research in Design Education 1998 followed by conferences in Paris 2000 Montreal 2002 Dublin 2004 Philadelphia 2006 Copenhagen 2008 Washington 2010 Milan 2012 and Honolulu 2014 The conference discussions focus on research experiences in the field of architecture and architectural education providing a critical forum for the dissemination and engagement of current ideas from around the world

Design Research in Architecture Professor Murray Fraser, 2013-12-31 This volume provides a broad overview on design research that supports and amplifies the different volumes coming out in Ashgate s major new series Design Research in Architecture It raises the central question what is the role of design research in the types of insight and knowledge that architects create and brings together leading architects and academics to discuss the more general issues involved in design research At the

end there is an Indicative Bibliography which alludes to a long history of architectural books which can be seen as being in the spirit of design research

Architectural Research Addressing Societal Challenges Manuel Jorge Rodrigues Couceiro da Costa, Filipa Roseta, Joana Pestana Lages, Susana Couceiro da Costa, 2019-08-08 The escalating interdependency of nations drives global geopolitics to shift ever more quickly Societies seem unable to control any change that affects their cities whether positively or negatively Challenges are global but solutions need to be implemented locally How can architectural research contribute to the future of our changing society How has it contributed in the past The theme of the 10th EAAE ARCC International Conference Architectural Research Addressing Societal Challenges was set to address these questions This book Architectural Research Addressing Societal Challenges includes reviewed papers presented in June 2016 at the 10th EAAE ARCC International Conference which was held at the facilities of the Faculty of Architecture of the University of Lisbon The papers have been further divided into the following five sub themes a Changing Society In Transit Global Migration Renaturalization of the City Emerging Fields of Architectural Practice and Research on Architectural Education The EAAE ARCC International Conference held under the aegis of the EAAE and of the ARCC is a conference organized every other year in collaboration with one of the member schools universities of those associations alternatively in North America or in Europe

Architecture, City, Environment Koen Steemers, Simos Yannas, 2000 PLEA is a network of individuals sharing expertise in the arts sciences planning and design of the built environment It serves as an international interdisciplinary forum to promote discourse on environmental quality in architecture and planning This 17th PLEA international conference addresses sustainable design with respect to architecture city and environment at the turn of the millennium The central aim of the conference is to explore the interrelationships and integration of architecture city and environment The Proceedings will be of interest to all those involved in bioclimatic design and the application of natural and innovative techniques to architecture and planning The conference is organised by the Martin Centre for Architectural and Urban Studies University of Cambridge and the Cambridge Programme for Industry University of Cambridge

Structures and Architecture. A Viable Urban Perspective? Marie Frier Hvejsel, Paulo J.S. Cruz, 2022-07-08 Structures and Architecture A Viable Urban Perspective contains extended abstracts of the research papers and prototype submissions presented at the Fifth International Conference on Structures and Architecture ICSA2022 Aalborg Denmark 6 8 July 2022 The book 578 pages also includes a USB with the full texts of the papers 1448 pages The contributions on creative and scientific aspects in the conception and construction of structures as architecture and on the role of advanced digital industrial and craft based technologies in this matter represent a critical blend of scientific technical and practical novelties in both fields Hence as part of the proceedings series Structures and Architecture the volume adds to a continuous exploration and development of the synergetic potentials of the fields of Structures and Architecture With each volume further challenging the conditions problems and potentials related to the art practice and theory of teaching researching

designing and building structures as vehicles towards a viable architecture of the urban environment The volumes of the series appear once every three years in tandem with the conferences organized by the International Association of Structures and Architecture and are intended for a global readership of researchers practitioners and students including architects structural and construction engineers builders and building consultants constructors material suppliers planners urban designers anthropologists economists sociologists artists product manufacturers and other professionals involved in the design and realization of architectural structural and infrastructural projects

Ways to Study and Research Urban, Architectural and Technical Design T.M. de Jong,D.J.M. van der Voordt,2005-12-31 How can we develop a scientific basis for architectural urban and technical design When can a design be labelled as scientific output comparable with a scientific report What are the similarities and dis similarities between design and empirical research and between design research typological research design study and study by design Is there a need for a particular methodology for design driven study and research With these questions in mind more than forty members of the Faculty of Architecture of the Delft University of Technology have described their ways of study and research Each chapter shows the objectives the methodology and its implementation in search for a deeper knowledge of design processes and an optimal quality of the design itself The authors among them architects urban planners social scientists lawyers technicians and information scientists have widely differing backgrounds Nevertheless they share a great deal The central focus is a better understanding of design processes design tools and the effects of design interventions on issues such as utility aesthetics meaning sustainability and feasibility

Trends in Enterprise Architecture Research Marc Lankhorst,Marten Schönherr,Joseph Barjis,Sietse Overbeek,2010-11-01 This volume constitutes the proceedings of the 5th International Workshop on Trends in Enterprise Architecture Research TEAR held in Delft The Netherlands on November 12 2010 The main objective of the workshop is to identify major trends and challenges in enterprise architecture research by providing a discussion forum where researchers and practitioners can exchange experiences problems and ideas The 7 papers presented were extensively reviewed and selected from 15 submissions They report on core concepts and the effectiveness of enterprise architecture on architecture description languages and on exemplary case studies

Exporting American Architecture 1870-2000 Jeffrey W. Cody,2005-06-27 The export of American architecture began in the nineteenth century as a disjointed set of personal adventures and commercial initiatives It continues today alongside the transfer of other aspects of American life and culture to most regions of the world Jeffrey Cody explains how why and where American architects planners building contractors and other actors have marketed American architecture overseas In so doing he provides a historical perspective on the diffusion of American building technologies architectural standards construction methods and planning paradigms Using previously undocumented examples and illustrations he shows how steel frame manufacturers shipped their products abroad enabling the erection of American style skyscrapers worldwide by 1900 and how this phase was followed by similar initiatives by companies

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