

## 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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