

5th International Conference and Expo on

Computer Graphics & Animation

September 26-27, 2018 | Montreal, Canada

Parametric architecture with software and impact on architectural design process

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In recent years, the study of exquisite geometry and its innovation has become an important issue in contemporary architecture. In the 21st century that is a new era for architectural design, computer software improved this theory of form-finding. The process of architectural design is semi-automatic or automatic. The designs offered to the architect by the software help her to find the suitable form. Parametric (component) form-finding uses variables along with a set of rules describing the defects and obstacles in shape and form in order to create three-dimensional shapes based on user data. The advancement of technology has offered creative methods for the design process to find a suitable form for the building. Using 3D design in massive volumes not only does replace the geometric design process, but it also replaces the early stages of the design process. These methods have become so popular that parametric design can be seen in different areas such as architecture, urban design, and interior design. The ability of these methods in clearly expressing the complexity of the program is more obvious in bigger projects. In parametric architecture, the building is influenced by both structural aesthetics and the design. In parametric design unlike the high-tech architecture structure is not the main element in architecture. Its technical implementation is compatible with aesthetics and performance. Requires the use of appropriate tools. So the thought is raised in the interaction between computer tools and designers in the process of creativity with the help of computer and 3D design and parametric design.

Biography

Fatemeh Alijani is Architect and Head of Design department of Suha Company, Iran. She worked professionally with Zista Architectur Gurop in the design and 3D modeling of the building. She also Illustration artist worked professionally with number of company and adversting office.

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