

Abstract of Master's Thesis Academic Year 2012

A study on method of environmental design based on human behaviour simulation  
-Through a case study of the Open Office Mall-

Summary

This Thesis, we review the method of action in the field of environmental design simulation, that is what you have to research a case study of whether the office gives us useful information on behavioral simulation to perform architectural design.

In the field of architectural design is developed before the simulation, the simulation is performed in the final stage of the design. And that because it had to be limited to where the simulation because it was taking a long time to simulate once, in the study of the initial stage choices huge and reason, another simulation, in which case because I could not do I narrow down. He had been previously thought, is not a good idea that simulated the early stages of building design therefore. However, in modern simulation developed, when performing the simulation when there is a large choice in the early stages of building design, considering the basic policy planning simulation has not been performed. The reasons for this, and that the time was fast simulation is easier than before, how to make a choice from among the huge selection be devised before and after the simulation is developed, but there is a difference in the stage of the simulation because it has been. The purpose of this study is to find a way to be selected.

Simulation of human crowd behavior at a particular time of day, this paper, simulation behavior he examined whether it is an effective means in the conduct of the building plans there. More specifically, for example to create a simulation, I made two assumptions in order to create the example. And it is that it answers the example. The contents of the example, is explore the conditions and that can be the location of high density mosaic state in open office mall, where I could do better, it can be easy to any location. In addition, preliminary simulation experiments are carried out in order to answer the example, I made a comparison and analysis of simulation-practice.

As a result of the proposed design of the common open space office mall answer based on the contents of the example, I have found that there is a difference in the results by changing the conditions of the simulation.

I proved that by the method of deployment of simulation, we give useful information in the study design. It also helps to expand and comparison of the simulation,

I have found that the study be carried out better than ever by repeating the simulation behavior that becomes possible.

Key Word

1, human behaviour simulation 2, environmental design 3, SimTread  
4, Open Office 5, common space