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3D Spatial Data Modelling and Network Analysis for Indoors

This paper presents a "3D Spatial Data Modelling and Network Analysis System for Indoors". The system contains two modules. The first module automatically generates geometrical and topological (relationships) data from architectural floor plan. After then, these obtained spatial data models are recorded to a designed geo-database. The second module is the network analysis module which computes the best path in a modelled building and provides 3D visualization and analysis of the path. The details of the system and spatial data models are described in this paper.