PROJECT Arch3D
SYSTEM TO CONVERT THE AERIAL VIEW OF A BASIC ARCHITECTURE TO 3D MODEL AND DISPLAY THE 360^0 VIEW OF THE MODEL

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Abstract

3D modeling can be defined as the process which is capable of providing mathematical view/representation of any surface of an object in any angle via a specified algorithm. Over past couple of decades many researches have been taken place seeking for a method to reconstruct 3D structure using photo collections and video sequences.

With the help of traditional method, using minimum of two uncalibrated stereo images 3D metric reconstruction and depth measurement can be done. But it has become a very challenging task due to generality, complexity and computational efficiency. Further due to input parameter figures which supposed to provide to the systems while constructing the 3D model like radius, height etc, requirement gathering has become complicated and cost competitive.

Therefore I would like to suggest a system which is capable of providing a 3D model based on image processing using a top view image of architecture. With the suggested system accurate 3D model and 360 degree view of that model will be presented to the user only using top view of the image.

Key word
3D, Models, Image, Documenting, Architecture