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### 3D Mesh Automatic Blanking and Split Technology in Urban Planning

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Abstract. In 3D digital urban planning applications, a model file may contain multiple building models, however, a single model or model component are very often needed to be used and operated independently. This paper studies 3D model segmentation and blanking technology in 3D urban planning. Three kinds of blanking and segmentation methods are in detail discussed. Finally, a 3D planning prototyping system is developed that include blanking and segmentation functions of the model. The experiment and their results verify the feasibility and efficiency of the method this paper proposed.

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