

Some Manipulation in Central Axonometry

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Abstract

Central projection is one of the special cases of central axonometry. According to the basic theorem, the central axonometric picture of an object is always projective to one of the central projection of the object. A photograph is a central projection of a spatial object. However, the photograph of a photograph of a spatial object will be a central projection only in rare special cases. We give an algorithm in this paper, which decides in practice, whether a photograph is a central projection of a spatial object or not. Furthermore, we show that when the photograph is not a central projection, it can always be transformed into one, provided that some metric data is available for the original spatial object.

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