## **3D Objects Indexing Using Spherical Harmonic for Optimum Measurement** Similarity

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**Abstract :** In this paper, we propose a method for three-dimensional (3-D)-model indexing based on defining a new descriptor, which we call new descriptor using spherical harmonics. The purpose of the method is to minimize, the processing time on the database of objects models and the searching time of similar objects to request object. Firstly we start by defining the new descriptor using a new division of 3-D object in a sphere. Then we define a new distance which will be used in the search for similar objects in the database.

Keywords : 3D indexation, spherical harmonic, similarity of 3D objects, measurement similarity

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