Abstract

A method for encoding and decoding, an encoder and decoder for a point cloud is disclosed. The method for encoding a point cloud to generate a bitstream of compressed point cloud data, wherein the point cloud's geometry is represented by an octree-based structure with a plurality of nodes having parent-child relationships by recursively splitting a volumetric space containing the point cloud into sub-volumes each associated with a node of the octree-based structure, comprising the steps of: Determining a coding mode, wherein the coding mode includes planar coding mode and angular coding mode; Obtaining coding context information for a present child node. At last entropy encoding the occupancy of the present child node based on the determined coding context information to produce encoded data for the bitstream.

Fig. 1