ABSTRACT

A method of encoding a point cloud into a bitstream, each point of the point cloud being associated with spherical coordinates representing an azimuthal angle and a radius, including: obtaining a scaled elementary azimuthal step associated with a point of the point cloud, the scaled elementary azimuthal step being greater than an elementary azimuthal step in response to a second data being strictly lower than a threshold, and being equal to the elementary azimuthal step otherwise; encoding, in the bitstream, a number of scaled elementary azimuthal steps obtained from an azimuthal angle of the point, a prediction of the azimuthal angle and the scaled elementary azimuthal step; and encoding, in the bitstream, an residual azimuthal angle of the point between the azimuthal angle of the point and a predicted azimuthal angle derived from the number of scaled elementary azimuthal steps and the scaled elementary azimuthal step.

Fig. 8