

DEVICE AND METHOD FOR PERFORMING PARALLEL MESH SIMPLIFICATION

ABSTRACT

Various embodiments concern a device for performing mesh simplification, the device including: one or more processor(s); and a memory having instructions stored therein, the instructions, when executed by the one or more processor(s), cause the one or more processor(s) to: randomly group the plurality of component edges of an input mesh representing a three-dimensional model into a plurality of edge groups with each edge group including a plurality of component edges; select a plurality of candidate edges from the plurality of component edges; select a set of independent edges from the plurality of candidate edges; and parallelly collapse the set of independent edges.

FIG. 3