

(a) (b) Figure 6. (a) Topology changes with respect to the direction f, (b) Reeb graph with a minimal number of surface sections.



(a) (b) (c) Figure 9. A graph-like representation of the centerline proposed in[20].



(b) (a) (c) (d) Figure 7. The characterization process of the mesh with respect to the distance from the barycentre, (a), (b), (c), and its Reeb graph, (d).



Figure 10. (a) Vertex classification based on Gaussian curvature (b) high curvature regions are depicted in red; (c) topological rings expanded from the centres of high curvature regions (d) obtained graph.



Figure 8. The graph representation with respect to the geodesic distance in [19]. Figure 9. A graph-like representation of the centerline proposed in[20].

