

Deques on a Torus

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To construct a one-page torus book embedding of a graph we arrange the vertices on a circle along the equator of the torus and then place the edges on the surface of the torus so that no two edges cross. This definition can be extended to an n -page torus book by maintaining the same circular vertex ordering on each page. We give an application of n -page torus books to computer science, showing that they correspond to torus deques. Optimal embeddings of certain graphs on torus books and applications to delivery systems are considered.

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