

Quadrilateral embedding of $G \times Q_s$

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Abstract

The hypercube Q_d , $d =$ dimension, is known to be embeddable in a surface such that every region has 4 sides. It is shown that for every connected graph G , there is a least nonnegative integer s such that $G \times Q_s$ has a quadrilateral embedding. This amounts to a kind of economy of scale for embeddings. The research is joint work with Rachel Hunter.

Keywords: hypercube, embedding.