

NOTE

MAXIMAL BUTTONINGS OF TREES

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Abstract

A *buttoning* of a tree that has vertices $v_1, v_2, \dots, v_n$ is a closed walk that starts at v_1 and travels along the shortest path in the tree to v_2 , and then along the shortest path to v_3 , and so forth, finishing with the shortest path from v_n to v_1 . Inspired by a problem about buttoning a shirt inefficiently, we determine the maximum length of buttonings of trees.

Keywords: centroid, graph metric, tree, walk, Wiener distance.

2010 Mathematics Subject Classification: Primary: 05C05, 05C38;
Secondary: 05C85.

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Received 12 July 2012
Revised 10 December 2012
Accepted 10 December 2012

¹The author thanks Jozef Širáň for helpful suggestions.