

About Universal Maximal Dynamic Flows

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Abstract

In this paper, first we present a practical improvement of Wilkinson algorithm for universal maximal dynamic flow. The improvement consists in maintaining unchanged from one iteration to the next iteration some data (i.e., several node labels), that in Wilkinson algorithm are computed at each iteration, although the values are the same as in the previous iteration. Finally, we develop an algorithm that works on residual network and is equivalent to Wilkinson algorithm.

Keywords: network flow, maximal dynamic flow, universal maximal dynamic flow

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