论文

# ERROR ESTIMATION OF THE APPROXIMATION ALGORITHM Supporting info FOR THE WINDY POSTMAN PROBLEM

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If we restrict the postman to traversing each edge at most twice in the windy postman problem (WPP), we will get a new problem: 2WPP. An approximation algorithmhas been posed by M. Guan for the WPP. In the present paper, we improve the estimatederror given by M. Guan and show that we can estimate the error for the 2WPP by finding a minimum cost circulation. We also pose a new sufficient condition for the equivalence between WPP and 2WPP, which can be checked in polynomial time steps.

关键词 Windy postman problem, approximation algo

分类号

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**Key words** Windy postman problem approximation algorithm 2WPP error estimation minimum cost circulation

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