

Apéndice B. Referencias vía correo electrónico

From: Lyle McGeoch <lam@cs.amherst.edu>
To: is106845@mail.pue.udlap.mx
Subject: Re: help!!
Sent: Tue, 21 Oct 2003 13:02:43 -0400

Hi,

You can't use 2-opt with ATSP because 2-opt flips part of the tour. To see this, make a drawing of a directed cycle. Break the cycle at two edges and add the replacement edges needed for 2-opt. Notice that one part of the original directed cycle now needs to be traversed in the opposite direction. That isn't reasonable because the distances on the reversed edges might be extremely large.

3-opt works because there is a way to reconnect after breaking three edges that maintains the direction on all other edges in the tour.

Hope this helps!

Lyle McGeoch

is106845@mail.udlap.mx wrote:

>Professor,

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>I am a student from Mexico. I am studying computer systems engineering at the UDLAP. Right now I am making my thesis about TSP with 2opt. I read your article "The Asymmetric Traveling Salesman Problem: Algorithms, Instance Generators, and Tests" but it was a little complicated to me to understand it.

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>I was wondering if it is possible that you can help me. My doubt is if it is possible to use 2opt with asymmetric tsp? And if it is possible, is necessary some change in 2opt? I hope you can help me, thanks for your attention.

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>David Palacios- This email was sent via mail - Checkout <http://mail>

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