Robust Minimum Cost Networks

Bruce Shepherd
bshep@research.bell-labs.com
Bell Laboratories, Lucent Technologies
600 Mountain Avenue, Room 2C-381
Murray Hill, NJ 07974-0636
USA

Abstract

We consider various problems related to the design of networks with uncertain or varying demand patterns. In one such, we see that when switching costs are incorporated in the model, designs based on oblivious routing (randomized routing schemes) provide cost-effective solutions.