**Interactive Metro Map Editing**

This paper was written by Yu Shen Wang and Wan Yu Peng. It talks about making map editors interactive.

Metro maps have become important tools as the number of metro lines in cities increases. These maps are typically used by passengers to orient themselves in a complex traffic network. Unlike general maps, metro maps display network topology rather than exact geography. Such information is helpful to passengers, who instantly need to know which station to get on or off a train.

When a metro network is developed in a city, cartographers have to redesign the map for passengers. However, designing a metro map is time-consuming and requires expert skills. Although several automatic layout algorithms have been presented to reduce the burden of cartographers, these algorithms may not satisfy aesthetic and readability requirements. Given that fully automatic methods are difficult to control, cartographers who attempt to modify a metro map still have to manipulate most station positions. Consequently, an interactive interface that allows cartographers or even non-professionals to easily design a metro map is essential.

In this paper, we present a unique user interface to create and edit metro maps. To be able to do this effectively, we take into account different affecting factors:

* + Interactivity
  + Intelligence
  + Stability
  + Effectiveness

The authors implement these features in their software by using curvilinear and octilinear optimization techniques.

**Results:**

