

An Emission Pricing Strategy Based on Urban Heat Island Effect

Abstract:

Beijing has been suffering from the air pollution for a long time. The government urges for a feasible vehicle emission charging plan to reduce air pollution and strengthen public environmental awareness. The previous related research have been focusing on congestion pricing. While in this study, we divide city into different zones according to their intensity level of Urban Heat Island (UHI), and according to the intensity of UHI of the zone where they are and the travel distance to charge vehicles.