

报告

Developing a smart bus distribution model for local air quality improvement

林润发教授 | 香港城市大学能源及环境学院助理教授



讲者介绍 Biography

Dr. Nicky Lam is an Assistant Professor in the School of Energy and Environment in City University of Hong Kong. He is currently serving in the advisory board of Hong Kong Environmental Protection Department (HKEPD) and Hong Kong Environment Bureau (HKENB) on air quality related applications. Before he joined CityU, he was a Post-doctoral Research Associate in the department of Civil and Environmental Engineering (CEE) at the University of Tennessee, Knoxville in the U.S.A. He has been a trainer for climate and air quality models for several years for various government agencies, including Hong Kong Environmental Protection Department (HKEPD) and Asia Center for Air Pollution Research (ACAP). He is interested in a variety of air quality researches including ambient air quality sampling, permitting, emission inventory development and future climate change modeling.

报告摘要 Abstract

Traffic data is considered one type of big data in terms of its numerous usages and applications in our modern society. Vehicle speed, traffic volume, vehicle type have long been collected by the government for use in roadway development, urban planning and vehicle emission modeling. In this study, a new way of collecting traffic speed data from GPS/AGPS system on franchised buses using the big data approach is presented. The study integrates GPS data collected from franchised buses with distance information from GIS to estimate local bus emissions in Shatin district.