



Transportation Planning Modeling Class

Bing Song and Jia Hao Wu
Wu & Song Associates (Shanghai), Inc.
June 24-26, 2009

Course Description

This short course is designed for engineers, consultants, researchers and students in the fields of transportation system modeling, transportation and traffic analysis (such as the transportation demand forecasting, traffic impact studies, transportation planning and operations). This course presents an overview of the traditional four-step model process and its integrated applications. It contains topics including Surveys, Network Characteristics, Trip Generation Rates, Auto Occupancy, Trip Distribution, Mode Choice, Traffic Assignment, External Stations, Transit Ridership and Validation etc. Implementations of these models in Emme will be discussed in term of macros, worksheets, GIS, tables and views. The first day of this course mainly focuses on the transportation planning process and modeling concepts. The second and third day are mainly devoted to model implementations and integrated applications. In addition, some Emme operations with computers will be provided to enhance the modeling concepts of this class.

交通规划建模培训班 (土地使用, 交通需求预测, 四步骤模型与修正, 一体化实例剖析)

讲员: 宋兵 和 吴稼豪
吴宋美加设计咨询(上海)有限公司
2009年6月24-26日

课程概述

该短期课程是专门为交通规划、交通系统建模和交通分析(如: 交通需求预测, 交通影响分析, 交通规划和交通管理)的规划师、工程师、咨询师、研究员和学生设计的。本课程概述了传统的四步模型的过程及其一体化应用。本课程的内容包括出行调查, 路网特性, 出行生成率, 出行分布, 方式划分, 交通分配, 对外站点, 流动人口, 公共交通分担率和模型校证等。我们将通过 Emme 的宏命令, 工作页面, GIS, 表格和视图来探讨 Emme 的具体应用。第一天, 主要侧重于规划过程与建模的概念。第二与第三天, 主要介绍了模型的实施和一体化应用。同时, 为配合课程需要, 我们将提供计算机和 Emme 狗用于 Emme 的具体操作与演示, 以加深建模概念。另外, 一些 Emme 最新的功能将介绍 (如读取 AutoCAD or GIS 自动建立 Emme 模型网路)。



Course Schedule (June 24-26, 2009) 课程安排 (6月24-26日)

June 24: 6月24日

9:00 - 9:10 a.m.	Opening Remarks 序言
9:10 - 10:40 a.m.	Lecture 1: Introduction of Transportation Planning Process 讲座 1: 交通规划过程的介绍
10:40 - 11:00 a.m.	Coffee Break 休息
11:00 - 12:30 p.m.	Lecture 2: Surveys and Trip Generation/Distribution 讲座 2: 出行调查及出行生成 / 分布
12:30 - 1:40 p.m.	Lunch Break 午餐
1:40 - 3:10 p.m.	Lecture 3: Mode Choice and Auto and Transit Assignments 讲座 3: 方式划分及小汽车、公交分配
3:10 - 3:30 p.m.	Coffee Break 休息
3:30 - 5:00 p.m.	Lecture 4: Emme Operation 讲座 4: Emme 操作

June 25 : 6月25日

9:00 - 10:30 a.m.	Lecture 5: Examples 讲座 5: 具体案例
10:30 - 10:50 a.m.	Coffee Break 休息
10:50 - 12:20 p.m.	Lecture 6: Travel Demand Forecasting and Modeling with Emme 讲座 6: , 出行需求预测及在 Emme 中的建模实施
12:20 - 1:30 p.m.	Lunch Break 午餐
1:30 - 3:00 p.m.	Lecture 7: Modeling Implementation and Macros 讲座 7: 建模及宏命令
3:00 - 3:20 p.m.	Coffee Break 休息
3:30 - 5:00 p.m.	Lecture 8: Emme Operations 讲座 8: Emme 操作

June 26 : 6月26日

9:00 - 10:30 a.m.	Lecture 9: Case Studies in Emme: Part 1 讲座 9: Emme 中的案例研究 1 <ul style="list-style-type: none">• Land Use Data Display 土地使用数据显示
-------------------	---



-
- Link and Turn Count 路段及交叉口转弯实测流量
 - GIS Display -GIS 显示
 - Sub Area Modeling 子区域建模
- 10:30 - 10:50 a.m. Coffee Break 休息
- 10:50 - 12:20 p.m. Lecture 10: Studies in Emme: Part 2
讲座 10: Emme 中的案例研究 2
- Multi-Class OD Estimation - 多模式 OD 反推
 - Select Link Analysis 路径选择分析
 - Export Model Results into Excel File 导出模型结果到 Excel 文件
 - Develop Plots 出图
- 12:20 - 1:30 p.m. Lunch Break 午餐
- 1:30 - 3:00 p.m. Lecture 11: Emme Operations
讲座 11: Emme 操作
- 3:00 - 3:20 p.m. Coffee Break 休息
- 3:30 - 5:00 p.m. Lecture 12: Questions and Discussions
讲座 12: 问题与讨论