

“Modelling and Simulation of Transportation Networks”

Naples, 19 – 23 May, 2014

COURSE SCHEDULE

	Monday, 19 May	Tuesday, 20 May	Wednesday, 21 May	Thursday, 22 May	Friday, 23 May
Lecture 1 9:30 – 11:00	Introduction; Demand and User Behavior I: Overview of Discrete Choice Analysis (Ben-Akiva)	Traffic Performance I: Modeling and Simulation Approaches (Ben-Akiva)	Traffic Performance IV: Static and Dynamic Network Supply Models (Cascetta)	Traffic Assignment I: Framework for Demand/Supply Interactions (Cascetta)	Freight Models II: Logistics Choices (Ben-Akiva)
Lecture 2 11:30 – 13:00	Demand and User Behavior II: Route and Time-of-Travel Choice (Ben-Akiva)	Traffic Performance II: Macroscopic Traffic Models and Introduction to Traffic Simulation (Punzo)	Public Transportation Models I: Framework and Low Frequency Services (Cascetta)	Traffic Assignment II: Equilibrium and Day-to- Day Dynamics (Cascetta)	Freight Models I: Economic Activity Models (Marzano)
Lecture 3 15:00 – 16:30	Demand and User Behavior III: Integrated Land use and Transportation Models (Coppola)	Traffic Performance III: Microscopic and Mesoscopic Traffic Simulation (Ben-Akiva)	Public Transportation Models II: High Frequency Services (Coppola)	Calibration and Validation III: Estimation of Origin to Destination Flows from Counts (Cascetta)	Questions and discussion
Lecture 4 17:00 – 18:30	Demand and User Behavior IV: Activity-Based Models (Ben-Akiva)	Calibration and Validation I: Estimation of Behavioral Models, Simultaneous Calibration (Ben-Akiva)	Calibration and Validation II: Microscopic Traffic Simulation Models (Punzo)		