

WEEK 1:

Modeling and Spatial Simulation: Definitions, Calibrations, Visualizations, and Applications

Preliminary Programme (last update: 28 June 2006, 14.00)

Instructors: Michael Batty (MB), John Wilson (JW)

[POWERPOINTS](#)

Sunday 25 June

Welcome dinner at course site (meet 19:45 in Fiesole, bus stop of line 47, town centre next to church)

Monday 26 June

08.30-09.00 Goals and objectives of the course: thinking vs. tinkering plus self-introduction of participants

09.00-10.00 Introduction to science, modeling and visualization: participants present *their* views on this week's topic, according to their backgrounds

10.00-10.30 Coffee break

10.30-11.30 Models and theories: understanding simulation and prediction (MB)

11.30-12.30 Urban/environmental modeling: from problem to product (JW)

12.30-13.30 Lunch

13.30-14.00 Our new world I: data rich but information poor (JW)

14.00-14.30 Our new world II: complexity and understanding using models (MB)

14.30-15.00 Building spatial models and thinking spatially (JW)

15.00-15.45 Group projects: setting goals and parameters

Group dinner, town centre (meet at bus 47 stop, 20:00 hours)

Tuesday 27 June

08.30-09.15 Research frontiers I: choosing among competing models (JW)

09.15-10:00 Setting up project work: modeling urban systems (MB/JW)

10.00-10.30 Coffee break

10.30-12.30 Web Research (groups)

12.30-13.30 Lunch

13.30-? Group work

Wednesday 28 June

08.30-10:00 Research frontiers II: Cellular Automata models (MB)

10.00-10.30 Coffee break

10.30-11.30 Research frontiers III: Agent-based Models (MB)

11.30-12.30 Group work

12.30-13.30 Lunch

13.30-15.30 Group work
15.30-? Fattoria Montebeni tour and olive oil tasting

Group dinner (La Reggia, Fiesole); meet at 20.00

Thursday 29 June

08.30-09.15 Research frontiers IV: greening models (JW)

09.15-10.00 Discussion on Calibration (JW/MB)

10.00-10.30 Coffee break

10.30-11.30 The influence of scale on model opportunities (MB/JW + discussion)

11.30-12.30 Group work

12.30-13.30 Lunch

13.30-14:00 European vs. US research perspectives and funding (MB/MG/JW)

14:00-15.50 Group work

Friday 30 June

08.30-10.00 Research frontiers V: modeling and visualization (MB)

10.00-10.30 Coffee break

10.30-12.30 Group work: finish proposals and prepare presentations

12.30-13.30 Lunch

13.30-16.00 Group work presentations and awards