

Module S4 Definitive Methods for Concurrent Systems Modelling

Timetable

Monday 12 December 1994

- 09.15 Module Overview
- 09.45 Lecture 1: An Introduction to the Empirical Modelling Project
- 10.30 Demonstration: The Vehicle Cruise Control Simulation
- 11.00 *Coffee*
- 11.15 Lecture 2: Introducing Definitive Notations
- 12.00 Demonstrations and Tutorial on DoNaLD
- 01.00 *Lunch*
- 02.00 Lecture 3: Introduction to EDEN programming
- 02.45 Demonstrations and Tutorial on EDEN
- 03.15 Tutorial and Laboratory: Animating Railway Signals
- 04.00 *Tea*
- 04.15 Seminar 1: Empirical Modelling from a Programming Perspective
- 05.15 Laboratory

Tuesday 13 December 1994

- 09.00 Lecture 4: Visualisation and Concurrent Systems Modelling
- 09.45 Demonstration: Visual Interfaces with SCOUT and DoNaLD
- 11.00 *Coffee*
- 11.15 Lecture 5: An introduction to Scout
- 12.00 Tutorial and Laboratory: The Railway Bulletin Board
- 01.00 *Lunch*
- 02.00 Tutorial on the Scout-Donald-Eden system
- 02.45 Tutorial and Laboratory: Visualisation for an Integrated Railway Simulation
- 04.00 *Tea*
- 04.15 Seminar 2: Programming as Modelling
- 05.15 Laboratory

Wednesday 14 December 1994

- 09.00 Lecture 6: Agent-Oriented Modelling for Discrete Event Systems
10.00 Demonstration: The Railway Station Animation
10.20 Tutorial: LSD specification of the VCCS
11.00 *Coffee*
11.15 Lecture 7: Principles of LSD specification
12.00 Case studies: Telephone, Railway Station Animation, Electronic Catflap
01.00 *Lunch*
02.00 Workshop: Back to the Future – Current Computing in Railway History
04.00 *Tea*
04.15 Seminar 3: Foundations of Programming
05.15 Laboratory

Thursday 15 December 1994

- 09.00 Lecture 8: The Abstract Definitive Machine
10.00 Tutorial: Animating LSD specifications in the ADM
Laboratory: Testing the telephone *Interface prototyping?*
11.00 *Coffee*
11.15 Lecture 9: Observations, continuity and events
12.00 Tutorial: Linking the ADM and EDEN
01.00 *Lunch*
02.00 Parallel Demonstrations: Beetles, Cricket, Billiards, Sailboat
02.30 Tutorial and Laboratory: Railway events, and animation in the ADM and EDEN
04.00 *Tea*
04.15 Seminar 4: Empirical Modelling of Concurrent Systems
05.15 Laboratory

Friday 16 December 1994

- 09.00 Lecture 10: Extensions and Issues for LSD and EDEN
10.00 Tutorial and Demonstration: The Digital Watch and Statechart Animation
10.30 *Coffee*
10.45 Laboratory and Individual Consultations
12.45 Module Debriefing
01.00 *Christmas Lunch / End*