

CS405 An Introduction to Empirical Modelling

Week 1

Lecture 1 (WMB): T 1/10/02
Intro - brief survey of EM, orientation based on bus services

Session 2 (SBR): Th 3/10/02
Introduction to EDEN and DoNaLD via room, roomviewer and VCCS

Week2

Session 3 (CR): M 7/10/02
Spreadsheets in tkeden and modelling exercises

Session 4 (WMB): T 8/10/02
Empirical Modelling for Concurrent Systems intro

Session 5 (WMB): Th 10/10/02
Definitive notations - issues for design and use
Design of SCOUT lecture / roomviewer demo / jugs SCOUT case study

Week 3

Session 6 (SBR + WMB): M 14/10/02
OXO exercises + CROE tic-tac-toe

OXO models - MSJ + cognitive layering + 3D croe
[?later: distributed, ADM TTT, translation to Pascal]

Session 7 (WMB): T 15/10/02
A Perspective on Concurrent Systems lecture

Session 8: Th 17/10/02
Context for concurrent systems modelling
Brief illustration of LSD with train demo
stationmaster LSD spec

Week 4:

Session 9:
[Empirical Modelling for the Single Agent lecture (OXO+WJ)
The Pjawns assignment M 21/10/02
Practical exercises in OXO laboratory

Session 10: T 22/10/02
Introduction to LSD

Session 11: Th 24/10/02
Principles for LSD analysis
Practical examples of LSD introduced
catflaps, VCCS, telephone

Week 5:

Session 12: M 28/10/02
Cat flap exercises
Intro to the Railway accident scenarios (Back to Future)

Session 13: T 29/10/02
Practical exercises with OXO laboratory

Session 14: Railway Accident Scenarios Th 31/10/02

Week 6:

?Varieties of agency: agentification, artefacts and animation

Session 12: M 4/11/02
dtkeden
Clayton Tunnel

Session 13: T 5/11/02
Practical exercises with OXO laboratory (distributed)

Session 14: ADM Th 7/11/02

[Content to be covered:
role of artefacts in concurrent systems modelling (digital watch?)
train/railway animation (LSD and ADM)

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Week 7

?Varieties of agency: agentification, artefacts and animation
Concurrent Engineering train/railway animation (LSD and ADM)

Week 8

Software development statecharts - digital watch, UML dishwasher
[distributed, ADM TTT, translation to Pascal]

Week 9

Education EM for ET (Staff Development Seminar) EPL
heapsort / COG

Week 10

Foundations of AI
[Empirical Modelling for the Single Agent lecture (OXO+WJ)]
Mensa railway discussion
Explanatory Modelling (ficts etc) and lines