Modelling of Software Intensive Systems

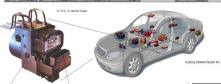
Hans Vangheluwe













ECU





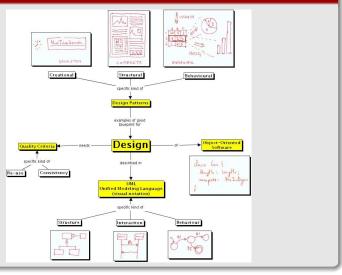


ECU's are part of mechatronic systems for measurement and control

Complexity

- causes
- solution: different formalisms
- modelling dynamics: different notions of time

Modelling Formalisms: Software



Modelling Formalisms

- Class Diagrams, Sequence Diagrams, Automata and Regular Expressions
- Causal Block Diagrams
- Petri nets
- Statecharts
- Discrete-Event World Views
- DEVS
- Cellular Automata
- Agent Based Modelling
- Forrester System Dynamics
- Modelling Physical Systems
- Systems Theory