

PhD Scholarships at the **Technical University of Denmark** within the areas of **Semantics, Analysis and Verification**

Research Areas:

Modelling of systems and their properties

Process calculi and automata for

Embedded systems

Service oriented systems

Workflow models

Logical formalisms for

Discrete properties (e.g. correctness, security)

Stochastic properties (e.g. performance)

Continuous properties (e.g. resource usage)

Analysis techniques

Static program analysis

Data flow analysis

Abstract interpretation

Type systems

Flow logic

Model checking

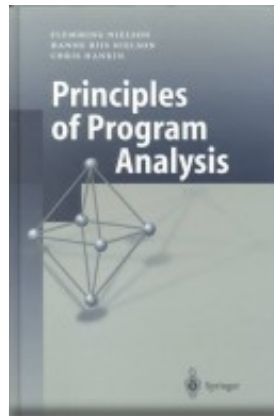
Discrete

Stochastic

Realisation

Prototypes

Algorithms and data structures



Example Application Areas:

- Modelling of Information Technology
 - see www.MT-LAB.dk
- Cyber Physical Systems
 - see www.idea4cps.dk

How to enquire:

1. Write a short introduction of yourself.
2. Write a page about your scientific background (from those listed).
3. Write a page about your research ideas (and how they might fit ours).
4. Fill out the form on http://www.dtu.dk/English/education/phd_education.aspx (in particular the grades – ask masad@imm.dtu.dk if in doubt).
5. Get a letter of recommendation from a supervisor or teacher.
6. Send it as one pdf to nielson@imm.dtu.dk
7. A formal application comes later.

A PhD Scholarship is for three years; you will be part of an international research group (see <http://ibt.imm.dtu.dk>) whose daily language is English, you will be paid about 3300€ per month, and you would be expected to spend up to half a year in a relevant research group outside of Denmark.