

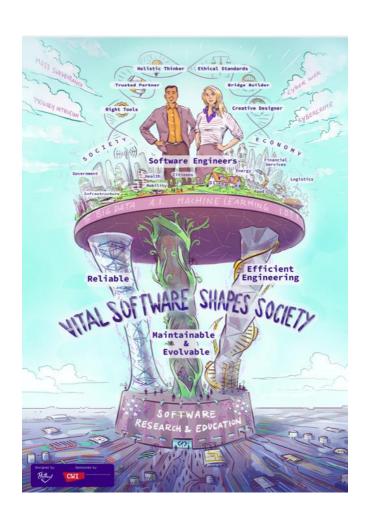
Research Projects in Software Science

Frits Vaandrager

Software Science Group

Institute for Computing and Information Sciences

Software Science



- Ensuring that software is correct and secure is both a major scientific challenge and an enterprise with enormous societal relevance.
- Modelling is an essential part of many scientific and engineering disciplines.
- It is important (and inspiring!) to cover the full spectrum from theory to applications in a single group.

Bachelor Thesis in Software Science

Emphasis can be on programming, theory, algorithm design, literature study, empirical/experimental work, building prototypes, industrial applications,..

You can do your bachelor thesis within the group, at a company, or at some other university of research institute AoE.

How to find a good project:

- 1. Select a topic from our wiki http://www.sws.cs.ru.nl/Teaching (more than 100 project ideas listed!!!)
- 2. Or propose your own topic
- 3. Discuss your ideas with staff members

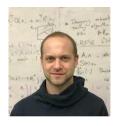
Software Analysis / Dependability



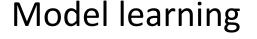
Frits Vaandrager



Jan Tretmans



Nils Jansen



Testing

Verified and dependable AI and machine learning



Marielle Stoelinga

Sebastian Junges

Algorithms for system dependability

Program Verification



Robbert Krebbers



Freek Wiedijk

Program verification with types and logic

Software Technology



Bodo Scholz

HPC, compilers, array programming



Pieter Koopman



Peter Achten

Task oriented / functional programming



Sjaak Smetsers

Programming education

Software Engineering



Mairieli Wessel





Daniel Strueber

Software product lines



Bin Lin

Software refactoring

Theory of Software



Herman Geuvers

Type theory and lambda calculus



Jurriaan Rot

Automata theory



Cynthia Kop

Term rewriting

Our Industrial Partners

- ASML
- Philips Healthcare
- Canon Production Printing
- Nexperia
- Alfalval
- Rolsch
- TomTom
- Thermo Fischer
- Vanderlande
- SpronQ

- ADLink
- AKKA
- Axini
- ICT
- InTraffic
- Nederlandse Spoorwegen
- Malvern Panalytical
- Sogeti
- Thales
- TOPIC Embedded Systems
- TOP Software Technology
- •

Our Academic Network



We will be happy to help you to arrange an internship at any place on earth where serious software science research is being carried out!