

MSE SEMINAR

Program Analysis & Transformation
FS 2018

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Goal of this Seminar

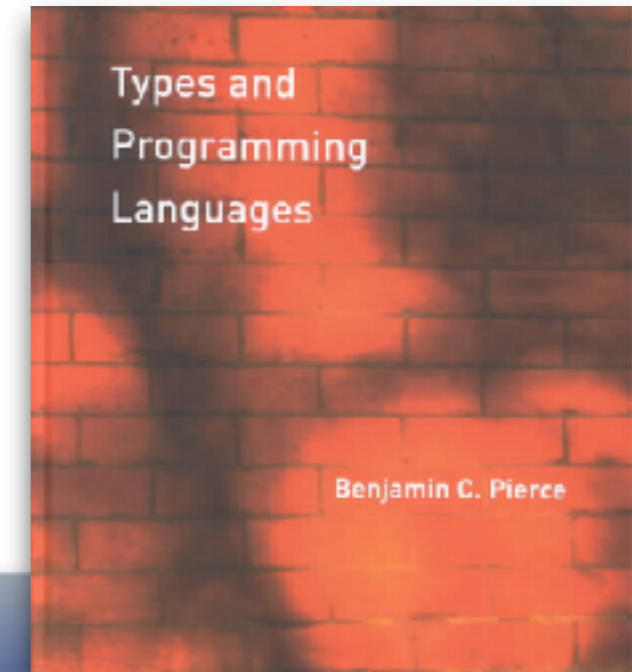
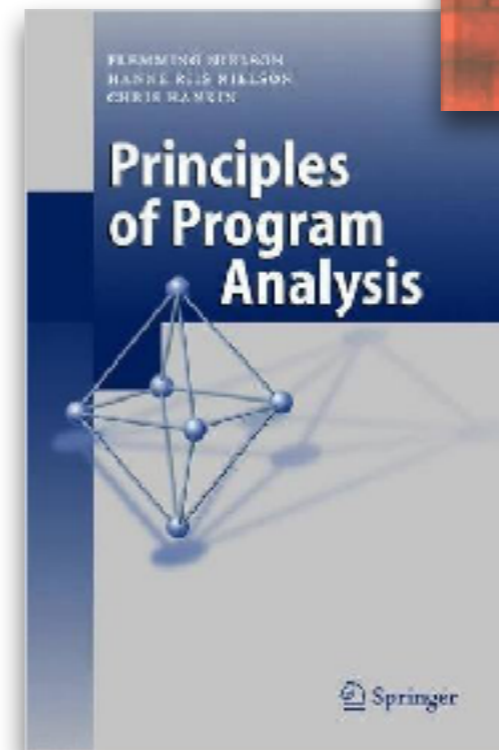
You are able to independently understand and explain scientific results in a given domain.

In particular, you must be able to independently:

- ... acquire, read, and understand scientific literature for your chosen topic.
- ... write a report expressing your understanding of your chosen topic.
- ... present and discuss your topic to the other participants of this seminar.

Topics Suggestions

- Type and Effect Systems
- Data Flow Analysis
- Constraint Based Analysis
- Abstract Interpretation
- ...



Your Report

- Must be independently written
- Must contain a complete and correct bibliography with references to all consulted and relevant literature
- Length: 10-15 A4 pages (< 5 MB)
- Language: English
- Plagiarism: Copying blocks of text without clearly indicating their source will result in immediate exclusion from this seminar.
- Format: Please use the standard LaTeX layout
`\documentclass[12pt,a4]{article}`
- Correct spelling and grammar is expected: Correction will be aborted after 10 errors on a single page

Your Presentation & Discussion

- Presentation: 20 Minutes
- Discussion: 25 Minutes
- Stick to your allotted times
- Focus on your audience, not only on the supervisors
- Language: English
(or German in case all participants agree)

Important Dates

- 02.03.2016: 12h (noon) Kickoff & selection of topics
- 30.03.2018: 12h (noon) Submission of outline of report (M1)
- 27.04.2016: 12h (noon) Submission of draft of report (M2)
- 30.05.2016: 12h (noon)
Submission of final paper & draft of presentation (M3)
- 08.06.2016: 15h30-17h30 Presentation & Discussions
- Submissions: Via email to supervisor and upload to wiki page
<http://wiki.ifs.hsr.ch/SemProgAnTr/wiki.cgi?SemProgAnTr>

Grading

- 20% : Preparation (Planning, Research)
- 30% : Report (Content, Structure, Language)
- 30% : Presentation
(Content, Structure, Language, Style, Quality of Answers)
- 20% : Participation in Discussion
(Active Participation, Reflection w.r.t. your own topic)
- Only participants with an adequate draft report submission will be allowed to present.

Discussion of reading assignment

- What is the authors' view on what constitutes program analysis? Do you agree with this view?
- What motivating applications are mentioned?
- Which techniques are presented?
- What is your impression on the presentation style used by the authors?
- Are there topics that you consider to be relevant that are not covered in this chapter / book / paper(s)?

Hints & Recommendations

- Be realistic! Invest time to understand your literature and topic.
- Be proactive! Look for additional literature and information.
- Discuss the content of your report with other students.
- Be proactive! Contact your supervisor on time.
- Prepare the meeting(s) with your supervisor.
- Be realistic! Preparing a good talk takes time and effort.

We wish you success and look forward to an enjoyable and high-quality seminar.