Advanced Functional Programming

Seminar

Programming Systems Lab
Software Engineering Chair

Gert Smolka • Christian Lindig • Andreas Rossberg • Jan Schwinghammer • Ralph Debusmann
Goals

- learn the best techniques used by functional programmers
- learn how to read and evaluate research papers
- get a feel for research questions
Topics

- clever abstractions:
  binary heaps, zipper, ...

- how to use language features:
  type classes, lazy evaluation, phantom types

- applications:
  testing, pretty printing, parsing, hardware design, interpreters
What to Expect

• we read papers and discuss papers together
• practice writing by summarizing papers
• group work in class on selected questions
• present one topic in depth
First Meeting

• Wednesday, October 19
• 1:30pm–2:00pm
• Room 528, Building 45
• also on the web: www.ps.uni-sb.de www.st.cs.uni-sb.de