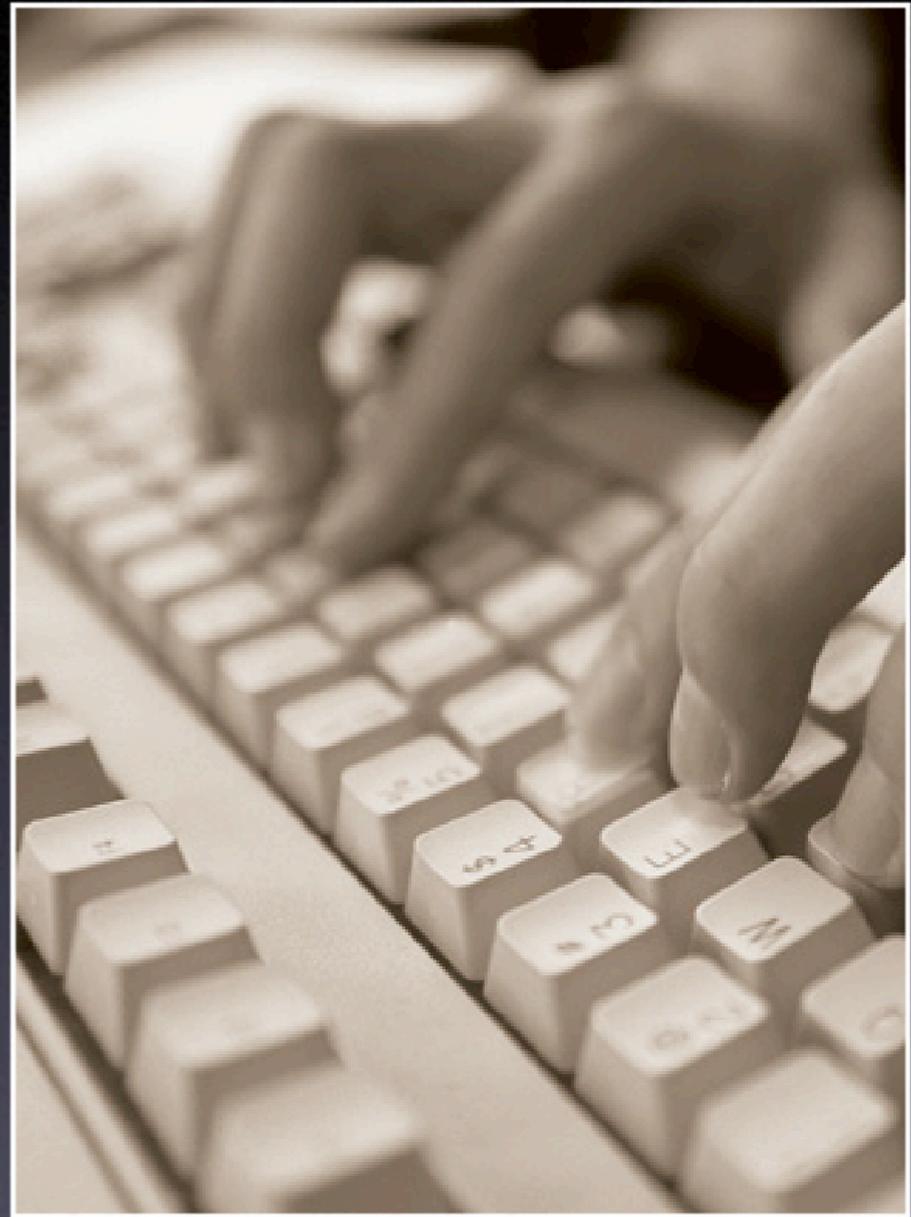


# Advanced Functional Programming

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](http://www.ps.uni-sb.de)  
[www.st.cs.uni-sb.de](http://www.st.cs.uni-sb.de)

