



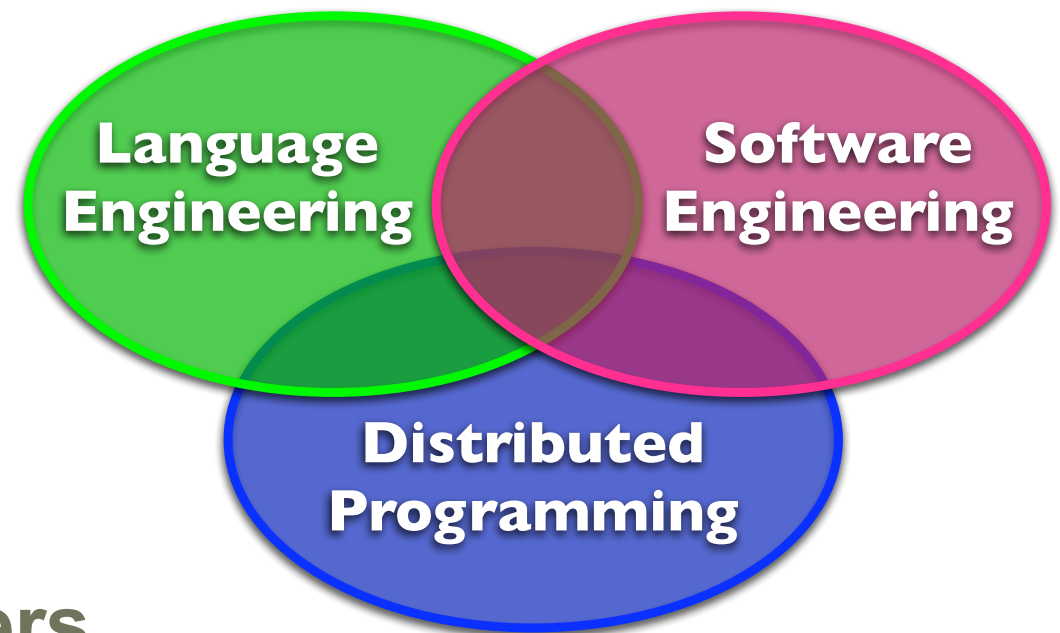
*System and
Software
Engineering* & *Programming
Technology*
Labs

Prof. Dr. Theo D'Hondt
Prof. Dr. Viviane Jonckers
Prof. Dr. Wolfgang De Meuter

PROG & SSEL Labs

30+ Researchers

- 3 professors
- 8 post-doc's
- 21 pre-doc's



Prof. Dr. Theo D'Hondt

<http://prog.vub.ac.be>

Prof. Dr. Viviane Jonckers

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Prof. Dr. Wolfgang De Meuter

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Programming Language Engineering

- **Aspect-Oriented Programming**
 - Rich pointcut languages
 - Concern-specific AOP
 - AOP instantiations (components, workflows, ...)
- **Declarative Meta Programming**
- **Context-Oriented Programming**
- **Ambient-Oriented Programming**
- **Implementation technology**
 - Virtual machines, memory management, language interpreters, ...

**Language
Engineering**

Software Engineering

- **Aspect-Oriented Software Development**
 - Aspect mining
 - (Visual) IDE
- **Model Driven Engineering**
 - Model consistency checking
 - Model refinement, extraction, refactoring
- **Service Oriented Software Development**
 - Workflow languages
 - Service discovery, selection, deployment, management
- **Knowledge-Intensive Software**
 - Explicit and active use of domain knowledge & rules
 - Domain = implementation and business domain
 - Static and dynamic program analysis



Distribution

- Language and Software Engineering Techniques for **Open Networks**
 - Ambient Intelligence
 - Mobile users and devices
 - Web services

**Distributed
Programming**



Artefact-driven Research

<http://prog.vub.ac.be> - <http://ssel.vub.ac.be>

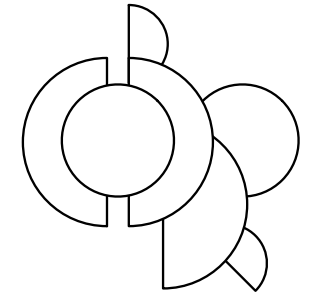


Linglets

WSML

Jasco

PacoSuite



COBRO

CDDToolkit



CARMA

Behave



AMBIENTTALK

KALA



Pico

SCE

Padus

ContextL

FuseJ

SelfSync