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
http://ssel.vub.ac.be

Prof. Dr. Wolfgang De Meuter
http://prog.vub.ac.be
• **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, ...
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
Artefact-driven Research

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