

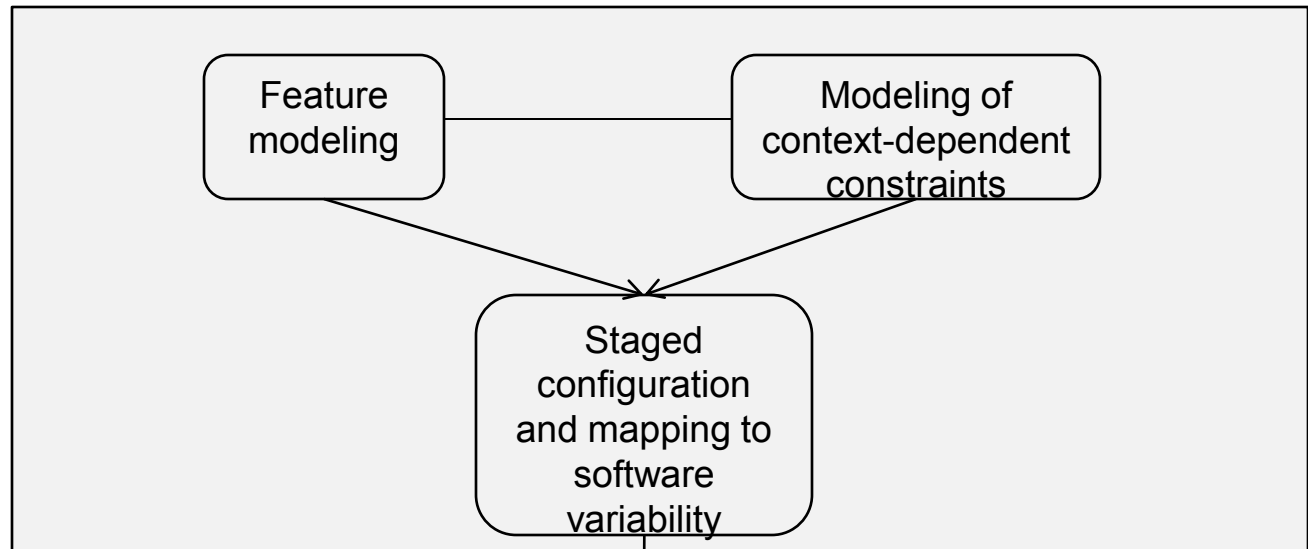
Moves-WP3: *Software Composition and Decomposition* Status Overview

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- Overall goal of WP3 has focused towards a central theme
 - Software Product Line Engineering (SPLE) approach for context-aware and self-adaptive software systems
- Research focus of last year
 - Use of Context-Oriented Programming (COP) for design of dynamic software product lines
 - Performing context-dependent adaptations in safe and efficient way
- In addition
 - Case study-driven validation of research
 - Wireless sensor networks
 - Cloud Computing
 - Support for complex feature configuration

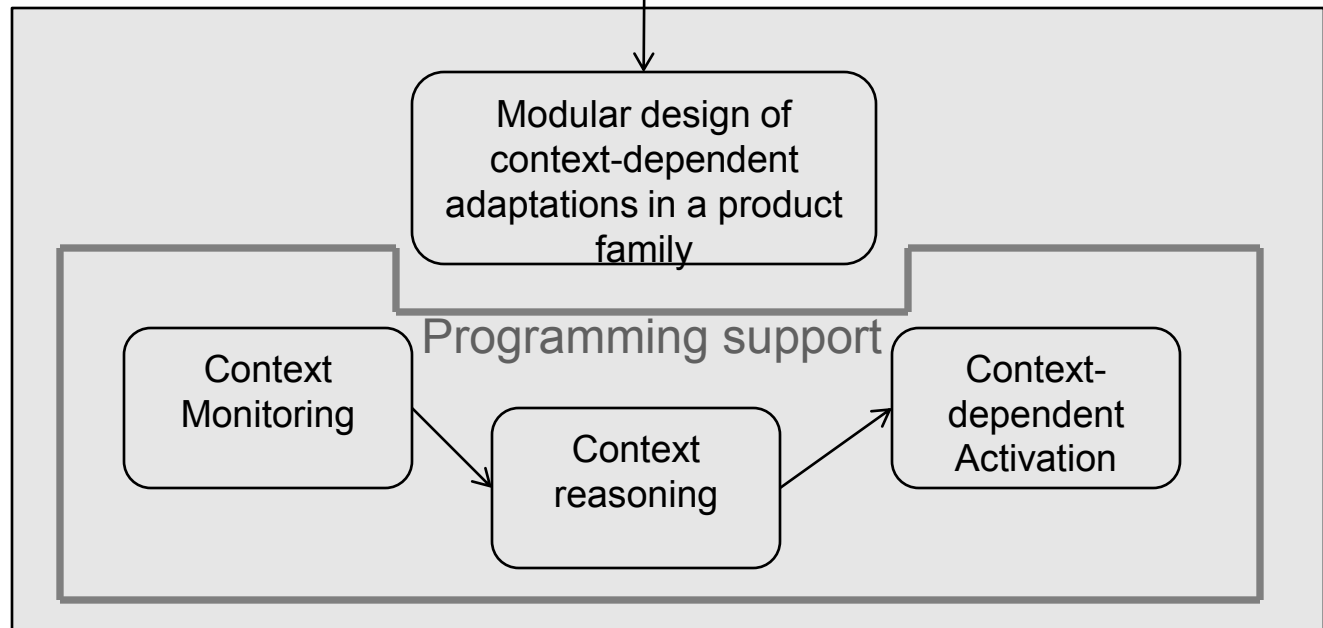
DOMAIN ANALYSIS TRACK

FUNDP, VUB



DOMAIN ARCHITECTURE TRACK

K.U.Leuven,
UCL, VUB,
INRIA



Joint publications

DOMA

Arnaud Hubaux, Patrick Heymans, Pierre-Yves Schobbens, Ebrahim Khalil Abbasi, Dirk Deridder, Supporting Multiple Perspectives in Feature-based Configuration, in Software and Systems Modeling (SoSyM) ([FUNDP, VUB])

FUNDP, VUB

Eddy Truyen, Nicolás Cardozo, Stefan Walraven, Jorge Vallejos, Engineer Bainomugisham, Sebastian Günther, Theo D'Hondt, Wouter Joosen, Context-oriented Programming for Customizable SaaS Applications, in Proceedings of 27th international Symposium on Applied Computing (SAC 2012), ACM, 2012 [KUL, VUB, UCL]

DOMAIN

Nelson Matthys, Wouter Amerijckx, Coen De Roover, Christophe Scholliers, Sam Michiels, Theo D'Hondt and Wouter Joosen, Language and Middleware Support for Dynamism in Wireless Sensor and Actuator Network Applications, in 6th International Workshop on Middleware Tools, Services and Runtime Support for Networked Embedded Systems (Midsens 2011) [KUL, VUB]

Arnaud Hubaux, Yingfei Xiong and Krzysztof Czarnecki, A Survey of Configuration Challenges in Linux and eCos, in Proceedings of the Sixth International Workshop on Variability Modelling of Software-intensive Systems (VaMoS'12), Leipzig Germany, January 27-29 [FUNDP, University of Waterloo]

Carlos Parra, Xavier Blanc, Anthony Cleve and Laurence Duchien, Unifying design and runtime software adaptation using aspect models, in Science of Computer Programming 76(12), Elsevier, 2011 [INRIA, FUNDP]

Staged configuration mapping to software variability

Context-dependent Adaptations in

Context mining

Context-dependent Activation

- *Vari-comp 2011/2012: International Workshop on Variability and Composition (co-located with AOSD 2011/2012)*, co-organized by Sebastián González (UCL) and Stefan Van Baelen (K.U.Leuven)
Sponsored by MoVeS
Submission deadline Vari-Comp 2012: 5 January 2012
- *COP 2011: International Workshop on Context-Oriented Programming (co-located with ECOOP 2011)*, co-organized by Jorge Vallejos (VUB)
Sponsored by MoVeS
- *LICT Workshop on Software Product Lines*, 10 May 2011
organized by Dave Clarke (K.U.Leuven)

- Safe state management in COP
 - *How to prevent state inconsistencies when using COP languages*
- Context-aware middleware
 - *Bridging two COP languages*
- Hot software updates
 - *Using COP for hot software updates*
- Combining Ambient-oriented Programming and Service-oriented middleware in the context of SaaS applications
 - *Building a-typical clouds on mobile ad-hoc networks*

More info at Moves-WP3 website

<http://moves.vub.ac.be/wp3/index>