

## Invited Talk of Kim Mens, Université catholique de Louvain, Belgium

Monday, 28.01.2019, 14:50, APB 3105

**Topic:** Broad introduction to COP

**Abstract:** The RELEASeD research group headed by Prof. Kim Mens at UC Louvain is exploring a context-oriented software development approach that combines ideas from context-oriented programming and feature-oriented modelling. In this approach, contexts reify situations in the environment to which the software can adapt. Features encode how the system should adapt to such situations. Feature modelling can be used to model both contexts and features. However, when developing such systems, keeping track of all possible contexts, features, their activation, inter- and intra-dependencies quickly becomes a daunting task. In addition to exploring novel programming language constructs for context-oriented programming we therefore also explore visualisation tools that can help developers of such systems understand, even during program execution, what contexts get activated, what features they trigger, and what code the features adapt at runtime.

**Bio:** Kim Mens is full Professor in Computer Science at UC Louvain University in Belgium, where he leads the RELEASeD research laboratory on software evolution and software development technology. He holds the degrees of Licentiate in Mathematics, Licentiate in Computer Science, and PhD in Computer Science. His main research interests include software development, software maintenance, software evolution and context-oriented programming with a particular emphasis on programming languages and tool support.