

Runtime Verification

Lecture 5 : Parameterized Regular Expressions in JavaMOP

<http://www.runtime-verification.org/course>

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This fifth lecture introduces parameterized regular expressions and how they are supported by the JavaMOP system. JavaMOP supports monitoring oriented programming where programs and specifications are written together. After this lecture you should be able to write extended regular expression specifications and generate aspects from these, which can then be compiled together with your application program.

Installation

JavaMOP can be accessed from the website. There is no need to install anything. On the website you can enter a specification, and with a press of a button generate an aspect, which you then cut-and-paste into your own environment to run with your own application. The slides will demonstrate this.

Reading

Same as lecture 4.

Assignments

Try to specify the three problems presented in lectures 2 and 3 (notes 2 and 3) using JavaMOP's regular expression specification language. Generate aspects, and try to compile and run them with a correct and a faulty program to demonstrate that they work.