SPEAKER:

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DATE:

Wednesday the 26th January 2010

TIME:

15:15 - 16:15

LOCATION:

Heriot-Watt University, Earl Mountbatten Building; room G.44

TITLE:

Refactoring Haskell Programs

ABSTRACT:

Refactoring is the process of changing the internal structure of a program, while preserving its behaviour.

The behaviour preservation is crucial so that refactorings do not introduce any bugs. Refactoring is aimed at increasing code quality, programmer productivity and code reuse. Refactoring has been practised manually by programmers for as long as programs have been written; however, with the the advent of refactorings tools, refactoring can be performed semi-automatically, allowing refactorings to be performed (and

undone) easily.

In this talk I discuss a number of program refactorings for the functional programming language Haskell, using the framework of the Haskell Refactorer, HaRe. I discuss the distinction between data-type and structural refactorings; and clone detection, that is, detection of duplicate code and removal, is also discussed.