WICSA 07 Tutorial

Refactoring Methods PVR Murthy, T. Rajaram, S. Hemanth January 6, 2007, (Half Day – PM)

This tutorial provides an introduction to the problems faced in software evolution, and why we need to be concerned about refactoring design and code on a continuous basis. Such refactoring helps ensure that software is more easily changeable, and the costs of development and maintenance are reduced. This tutorial addresses (a) refactoring techniques that a developer can employ during design and coding and (b) static analysis techniques that detect opportunities for refactoring.

The tutorial contains the following information:

- Low-level refactoring
- High-level refactoring and automation
- Attempts to automate detection of low-level refactoring
- Refactoring to patterns.