

SEMINAR ANNOUNCEMENT

Perspectives on the integration of Aspect-Oriented Software Development and Model-Driven Software Development paradigms

Asst. Prof. Dr. Bedir Tekinerdogan
Bilkent University, Dept. of Computer Engineering

One of the most important principles to cope with complexity and change in software engineering is the separation of concerns principle. The principle states that for each design problem the relevant concerns need to be identified and separately represented in modules to increase modularity, and likewise support reuse, adaptability and maintainability.

Separation of concerns principle has been also applied to define different software composition paradigms. In this talk we will reflect on the separation of concerns in both aspect-oriented software development (AOSD), and model-driven software development (MDSO). Both paradigms tackle the separation of concerns in different ways and likewise provide different benefits. AOSD provides explicit language abstractions to model so-called crosscutting concerns as aspects, and compose these aspects in the base code. On the other hand, MDSO provides the key concepts model, metamodel and transformation to support the (semi-)automatic transformations of software modules.

In the second part of the talk we will explore the integration of both paradigms and for this analyze AOSD from an MDSO perspective and MDSO from an AOSD perspective. The aim of the talk is to explore research questions rather than providing particular hands-on solutions for these problems.

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Place: Conference room of Ege University International Computer Institute