Course Objectives:

Aspect-oriented software development is a hot but controversial topic in academic programming languages and software engineering research, and in industrial practice. This seminar will provide a broad perspective on the field. Understanding will be strengthened with a detailed exploration of the industrially most successful realization of the ideas to date. You will also gain fundamental perspectives on the strengths and weaknesses of, and the controversy surrounding, this emerging software design approach. Broadly the objectives of this seminar are:

• Understand the historical roots of aspect-oriented software development
• Gain familiarity with current research and state of the art in aspect-oriented design
• Develop a critical understanding of strengths and weaknesses of current work

Logistics:

The seminar will meet once a week on Wednesday from 4:10-5:30 PM. Students will be expected to participate in discussions, to read papers. If you have registered for one credit or you are just sitting in the seminar, you will be expected to contribute by presenting papers and leading discussions on it. If you have registered for three credits, in addition to presenting papers and leading discussions you will also be expected to do a team project leading to a publication quality report.

Reading List:


22. Shriram Krishnamurthi, Kathi Fisler, Michael Greenberg, Verifying aspect advice modularly, Proceedings of the 12th ACM SIGSOFT twelfth international symposium on Foundations of software engineering, October 31-November 06, 2004, Newport Beach, CA, USA
