Assignment 4

**Individual Research**
**Spring 2014 (2-92-93)**

The research assignment is an important part of the PSE course. The list of research topics is given below. Please take note of the following instructions first:

- You should email me your topics of choice – as a prioritized list of **three** topics – by this Thursday (12 Tir).
- Each of the topics is either intended for one student, or a team of two. The number in parentheses shows the default size of the research team for each topic. Students who intend to work alone are allowed to select a team topic, but they should realize that they will be expected to work harder (you will get extra points, however).
- If you’d prefer to work on a topic other than those listed below, you can include it on your list of selected topics; if the title of your proposed topic is not expressive enough, a proper explanation of the topic should also be provided.

The topics will be assigned to individuals/teams by this Saturday (14 Tir). A research starter package for each of the topics has been made available on the course webpage (on CE); each package contains several resources which are intended to start you off on your research. Please note that you may not need to use all of these resources; on the other hand, you will definitely need to complement them with other resources: You should study the list of references at the end of each resource for other potential resources.

1. Patterns in Service-Oriented Architecture: Survey and Analysis (2)
2. Modern Analysis Patterns: Survey and Analysis (1)
3. Architectural Patterns for Agile Software Development: Survey and Analysis (1)
4. Web Development Patterns: Survey and Analysis (2)
5. Model Transformation Patterns in Model-Driven Development: Survey and Analysis (1)
6. Patterns for Distributed Systems: Survey and Analysis of Recent Developments (1)
7. Design Pattern Mining: Survey and Analysis (1)
8. Testing Patterns: Survey and Analysis (2)