Assignment 4

Research Assignment
Spring 2019 (2-97-98)

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 Monday 10 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 Wednesday 12 Tir. A research starter package for each of the topics has been made available on the course webpage (on CE/Piazza); each package contains several resources that 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. Concepts and Patterns of Model-Driven Development: Survey and Analysis (2)
2. Patterns for Distributed Systems: Survey and Analysis (2)
3. Patterns for Agent-Oriented Systems: Survey and Analysis (2)
4. Service-Oriented Patterns: Survey and Analysis (2)
5. Security Patterns: Survey and Analysis (1)
6. Patterns for Mobile Systems and Applications: Survey and Analysis (1)
7. Web Development Patterns: Survey and Analysis (1)
8. Project Management Patterns: Survey and Analysis (1)