Assignment 4

Research Assignment
Spring 2017 (2-95-96)

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 Wednesday 14 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 Friday 16 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. Patterns for Internet of Things: Survey and Analysis (1)
2. Patterns for Mobile Systems and Applications: Survey and Analysis (1)
3. Patterns in Model-Driven Development: Survey and Analysis (1)
4. Testing Patterns: Survey and Analysis (1)
5. Patterns for Cloud Computing: Survey and Analysis (1)
6. Web Development Patterns: Survey and Analysis (1)
7. Enterprise Architecture Patterns: Survey and Analysis (2)
8. Patterns for Distributed Systems: Survey and Analysis (2)
9. Service-Oriented Patterns: Survey and Analysis (2)
10. Security Patterns: Survey and Analysis (2)