WMR 2006

First International Workshop on
Web Maintenance and Reengineering

24-March-2006, Bari, Italy

colocated with the 10th European Conference on
Software Maintenance and Reengineering (CSMR 2006)
Theme and goals

Traditionally, in the software engineering field, a lot of effort is dedicated to design/model, project, and implement software. In fact, the importance of designing a robust and well-written software system is known and recognized by the industry and the scientific community. However, the “activities” related to general software maintenance (including re-engineering and reverse engineering), and evolution are less addressed. Moreover, the techniques for re-engineering and software maintenance are mostly focused on traditional software rather than Web software (i.e., Web sites, Web applications, or Web services). This workshop/working session aims at evaluating, identifying, and discussing the following example themes:

- Are traditional techniques fully applicable to Web software?
- What are the particular challenges posed by Web software in terms of maintenance, understanding and evolution?
- Which technique is best for XY Web platform? (Where XY represents a Web platform/language/etc of choice)
- Can software measurements be used to increase the quality of Web software maintenance? How is it possible?
- What are the best metrics for Web applications? Do all metrics are meaningful for every Web platform/language/etc?
- What techniques/methods may be useful in order to control Web software changes, versions or migration?
- How reengineering methods can be used to increase the quality of new Web applications?
- Can Web reverse engineering be used to simplify or guide Web software maintenance (including reengineering)?
- Can reverse engineered information (models, source code, etc.) be used to maintenance, evolve and reengineer Web software?
Topics

The goal of the workshop is to identify the most practical and effective (i.e., covering widespread implementation platforms and languages) techniques for web reengineering, evolution and maintenance. We encourage original submissions in any field of Web maintenance and reengineering. Areas of particular interest include (but are not limited to):

- Maintainability analysis and prediction
- Software architecture recovery and evolution
- Machine learning approaches for software maintenance
- Model-driven Web software engineering
- Software restructuring, refactoring and renovation
- Feature identification, extraction and analysis
- Slicing and change analysis
- Reverse engineering techniques
- Techniques, environment and technologies for reengineering
- Evolutionary algorithms or intelligent systems to support reengineering and maintenance
- Effort and cost estimation
- Metrics-based rules for detecting design flaws
- Monitoring the evolution of a system with metrics
- Testing techniques for maintenance and evolution
- Defect rate and reliability prediction
- Aspect-oriented programming on Web software maintenance

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