Context is now a dimension that cannot be ignored in a number of domains. Several domains, such as Logics, Linguistics, Artificial Intelligence, Medicine, etc. already tackle the problem of making explicit, modeling and using context in real-world applications (see http://www-poleia.lip6.fr/~brezil/ for different presentations). In the area of software, we have seen the recent development of "context-aware applications" and ubiquitous computing. However, the view of context is limited to what sensors see. They do not consider the relationships between context and information, knowledge, reasoning, and users.

Thus, our objective in this workshop was to address topics such as: Software aspects of Context acquisition tools and techniques, Object-oriented techniques applied to user modeling and context modeling, Software frameworks for Context-aware applications, design patterns applied to context-aware applications and context in security issues. The main questions we would like to debate during this half-day workshop are around: How to model in an efficient way context using software engineering tools? How to change our viewpoint on context-based software? Is the explicit use of software engineering techniques the way to open the door to new challenges in Computer Science? We finally retain four papers.

The first paper is written by Boris Dragovic and Jon Crowcroft. They present an approach to modeling the world based on natural notions of container and containment and show how it enables explicit reasoning about and acting upon context-implied effects on target entities, data objects in particular. They also outline a practical use of the model through its application in a system for autonomic context-aware information security and privacy protection.

Anca Rarau et al. propose a software framework for building context-aware applications. The adaptation mechanism proposed by the framework successfully manages the conflictive situations without requiring the explicit description of the situations.

Christos K. Georgiadis et al. discuss context-based humanized and authorized personalization in mobile commerce applications. They focus on how the various customization and authorization concepts influence specific user interface design elements, namely content, presentation, connection, communication, community and commerce. Adapting an appropriate context-sensitive model for authorizations, the overall flexibility of the established personalization mechanisms is preserved without compromising the stability of the required security precautions.

The fourth paper is authored by Davy Preuveneers and Yolande Berbers. They propose a context-driven composition infrastructure to create an instantiation of a pervasive service customized to the preferences of the user and to the capabilities of his device. They implement services as a composition of components. This enables them to compose a service implementation targeted at a specific device while still being able to adapt it at run-time to respond to changing working conditions.

However, discussion during the half-day workshop would allow clarify some important paths to follow or challenges to attack.

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