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And Ubiquitous Services  
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Preface

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## Preface

Nowadays, there is a global exponential increase in the use of portable smart devices, such as tablets, smart phones, GPS, etc. These small devices have a huge impact on the everyday life of its users, either for work or leisure. As a consequence to this, the availability and behavior of the services that can be used with such devices has become a big concern. Moreover, the existing tools still have some limitations to face these concerns properly, given the heterogeneity and the unstable presence of devices and platforms, and the great variability of situations that users might encounter. To overcome these difficulties, and promote the development and widespread deployment of innovative mobile applications, more and more projects are addressing the development of context-aware adaptation mechanisms for leveraging the development of mobile applications. These projects aim at providing simple but powerful integrated approaches to support the development of applications interacting in pervasive and ubiquitous environments. Thus, these projects, as well as other projects, tackle the growing complexity of building large and dynamic distributed systems. With regards to this challenge, the CAMPUS workshop will focus on the promising approaches in the domain of context-aware adaptation mechanisms supporting the dynamic evolution of the execution context (e.g., network/device/service failures).

This volume contains the proceedings of the fourth workshop on Context-aware Adaptation Mechanisms for Pervasive and Ubiquitous Services, held in Reykjavik, Iceland, on June 9, 2011. The CAMPUS workshop is jointly organized by the MUSIC, CONNECT, and DiVA IST projects. It provides a forum for scientists and engineers in academia and industry to present and discuss their latest research. The focus of the conference is the design, implementation, deployment, and evaluation of adaptive platforms and architectures for context-aware environments. This year, the workshop intends to encourage submissions related adaptation issues addressed by some emerging themes in the service computing community: Sensor as a Service, Ambient Social Services and Green IT. We had 4 submissions from 4 different countries, among which only 3 papers were selected for inclusion in the program of the workshop. All papers were evaluated by at least four reviewers with respect to their originality, technical merit, presentation quality, and relevance to the workshop themes. The selected papers present the latest results and breakthroughs on middleware research in areas of automotive systems, ubiquitous environments, pervasive environments, ambient computing and multimedia computing. We would like to express our deepest appreciation to the authors of the submitted papers, to all Program Committee members for their diligence in the paper review and selection process, and to all external reviewers for their help in evaluating submissions.

June, 2011

Gabriel Hermsillo  
Russel Nzekwa  
Michael Wagner



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## Contents

Volatile Sets: Event-driven Collections for Mobile Ad-Hoc Applications

*Dries Harnie, Elisa Gonzalez Boix, Andoni Lombide Carreton, Christophe Scholliers and Wolfgang De Meuter*

Context awareness: Challenges and opportunities in modern smartphone use

*Nearchos Paspallis and Gabriel Panis*

Towards a Flexible and Evolvable Framework for Self-Adaptation

*Lucas L. Provensi and Frank Eliassen*