



European Context-Awareness and Trust (EUROCAT09)

3rd Workshop on Combining Context with
Trust, Security, and Privacy

co-located with EUROPKI09 and ISC09
9th September 2009, Pisa, Italy

WORKSHOP PROCEEDINGS

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Preface

This volume contains the proceedings of the European Workshop on Combining Context with Trust, Security and Privacy (EUROCAT09), held the 9th September 2009 in Pisa, Italy. The workshop runs its third edition, and it has followed the previous CAT07 and CAT08. The prefix “EURO” underlines the European scope of this edition of the workshop.

In its previous editions the workshop was co-located with IFIP Conference on Trust Management (IFIPTM). The interaction with the trust management community has brought stimulating ideas and experiences from the trust management research into the context-awareness areas. This year the workshop has tried to widen its scientific interaction and it has been co-located with two important events in Security and Privacy: (a) EUROPKI09, the European Workshop on Public Key Services Application and Infrastructures, and (b) ISC09, the Information Security Conference. This change is consistent with the goal of the workshop, which aims to stimulate an active exchange of new ideas on the bidirectional relationship between the area of context awareness and the area of trust, security, and privacy.

Since its very foundation, the workshop had the target of bringing experts together, to collect the state of the art, to identify open and emerging problems in the evolution of today’s communication systems. In fact, society is moving fast towards a more pervasive and ubiquitous context-awareness infrastructures (*e.g.*, think about the increasing number of applications that are able to understand what a user is doing, or about the arising of living lab initiatives across Europe) that challenge trust, security, and privacy of individuals and societies. In the same time, the use of context may arise new opportunities, for example, in service customization and in application’s efficiency and user friendliness.

The focus on combining context with trust, security, and privacy open new insights as well as provide an interesting playground for the communities of researchers from Trust, Security, and Privacy. In particular:

- The opportunity to use context as an approach to enhance privacy and security seems an interesting, innovative, and value-adding extension. For example, the availability of context information can help the establishment of trust relationship (users in the same room for the same meeting are more willing to trust each other more than users without visible contact). Moreover, contextual information can be used to improve dynamic, adaptive, and autonomic aspects of security, access control, and privacy enhancing technologies.
- The opportunity to apply the results achieved in security, privacy, and trust to strengthen context aware infrastructures and to facilitate the exchange of context information is a challenge for the Security community. For example, because context information often has a personal character, privacy and

other rights of individuals are potentially endangered and need scientific and technological solution that carefully protect them

Following the trend initiated last year, EUROCAT09 has attracted the attention of researchers with a computer science and information & communication technology background, whose experiences root both in the academia and industry. In the current edition, four papers have been accepted for oral presentations. Papers were reviewed by at least three reviewers of the program committee, and all selected papers are of high quality. The volume opens with a resume of the invited speaker's talk on trust requirements and policy management issues in the design of context-aware and service-oriented architectures which make use of privacy sensitive end-users' information collected from sensors and information providers. The following articles in the volume are representative of the current research activities on the topics of the workshop. Two contributions approach the design of user-centric architecture for identity management and authentication in smart and pervasive ambients. In particular the first focuses on the problem of delegation of identities in ubiquitous environments, the second on how to realize a persistent authentication solution in smart environments where privacy must be also preserved. A third contribution addresses the problem of managing the retrieval of context-aware point-of-interests while preserving user' privacy. The last paper proposes a mechanism that allows a secure portability of entities' reputations across different web-portals.

An on-line version of the present proceedings will be published by CEUR-WS.org (<http://ceur-ws.org>). It will also be available at the workshop website.

We would like to take this opportunity to thank people who contributed to the EuroCAT09 workshop. We wish to thank the PC members, the reviewers, the invited speaker and, in particular, all the authors for their valuable contributions: we wish them a successful continuation of their work in this area. We thank the chairs of EuroPKI09 and ISC09 conferences for their support and hospitality.

September 17, 2009
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Organization

EUROCAT09 has been supported by Novay, Enschede, The Netherlands (www.novay.nl) and by the Instituto di Informatica e Telematica IIT-CNR, Pisa, Italy (www.iit.cnr.it).

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