

International Conference on Ambient Intelligence Developments

AmID'06

www.amidconference.org



within the 7th Smart Event organized by:



Sophia-Antipolis, French Riviera, France, September 21-22, 2006

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Research Track Call for Papers

Future Ambient Intelligence (AmI) environments will contain a large number of heterogeneous computing and communication infrastructures and devices that will provide new functionalities, enhance user productivity, and ease everyday tasks. Ubiquitous computers will seamlessly enhance the way we work and even the way we live thanks to the access to information technologies that will optimize the environment for people's needs in different physical spaces. Anytime/anywhere access to information and services will be provided.

In this scenario, applications will be influenced by the computational, physical and behavioural contexts that surround the user (for instance, because of resource availability and security or privacy requirements). Furthermore, the concept of application as we know it today will disappear. Applications in AmI environments will evolve from well-defined pieces of software, with static architectures, well-defined limits and owners, to what we could call AmI ecosystems, lacking a fixed architecture, controlled limits and even owners.

The combination of heterogeneity, mobility, dynamism, sheer number of devices, along with the growing demands in aspects such as security and dependability (S&D), make the development of software for these ecosystems vastly more complex and increasingly difficult. It will be impossible, even for the most experienced and knowledgeable developers, to foresee all possible situations and interactions which may arise in AmI environments and therefore create suitable solutions to address the users' requirements. Moreover, developers will have to face the fact that some necessary pieces of software, communication infrastructures and hardware devices will not be under their control.

The focus of this edition will be on the enabling technologies for AmI. In particular, we believe that the development of new software engineering and security engineering practices especially adapted to the new challenges introduced by AmI ecosystems is a key factor for the real-world development of the AmI concept. Original papers dealing with AmI issues are solicited related (but not limited to) the following topics of interest:

- Supporting technologies for AmI
- Software engineering
- Security and Dependability engineering
- Integrated security and software engineering for AmI
- AmI devices and hardware support
- Distribution architectures for AmI
- Interaction mechanisms
- Communication protocols
- Intelligent interfaces
- Experiences and case studies
- Automated configuration and monitoring
- Context awareness
- AmI applications

Submission Instructions

Authors are invited to submit original papers, not previously submitted to other conferences or journals, of not more than 10 A4 pages of double column text using single spaced 10 point size. Detailed instructions paper submission and final manuscripts preparation will be found on the conference web site.

Authors of selected papers will be invited to submit extended versions of their papers for publication in international journals. More info will be found on the conference web site. AmID 2006 will also include some associated activities, as well as an **Open Track**. To organize or participate in these, please refer to the conference web site.

Submission Dates

Papers due	April 30 th
Notification	May 30 th
Final Version	June 30 th