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Special Issue on “Advances in Security and Multimodality for Pervasive Computing Environments”

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Pervasive, or ubiquitous, computing calls for the deployment of a wide variety of smart devices throughout our working and living spaces. These devices are intended to react to their environment and coordinate with each other and with other network services. This results in a giant, ad-hoc distributed system, with tens of thousands of people, devices, and services coming and going. Due to the uncertainty and mobility of pervasive computing environments, trust modelling has been regarded as an important problem. Context-awareness, mobility and integration are the properties every pervasive computing environment embodies. Pervasive computing environments (PE) present specific peculiarities with respect to aspects like security and multimodality. While enlarging and easing the ways to access to the environment, security threats arise and the environment must be properly equipped in order to protect itself from malicious attacks and/or from wrong action performed by inexperienced users.

Research areas of relevance to this special issue as listed, but not only limited to:

- Context-Awareness in multimodal applications
- Middleware services for multimodal and pervasive applications
- Trust models and frameworks for PE
- Multimodal mobile and ubiquitous services
- Intelligent Context-Aware System Architecture in PE
- Security model for pervasive computing
- Advanced multimodal interfaces
- Human oriented interfaces
- Virtual reality and ubiquitous computing
- Security standards for next pervasive computing
- Key management and authentication in pervasive computing
- Security in Human Centred Environments
- Intelligent multimedia security services in pervasive computing

Important Dates

Submission of Manuscripts	May	30, 2010
Decision Notification	September	30, 2010
Submission of Camera ready paper	October	30, 2010
Publication	1 st or 2 nd Quarter,	2011 (Tentative)

Submission Guideline

Original, high quality contributions that are not yet published or that are not currently under review by other journals or peer reviewed conferences are sought. Manuscripts should be submitted by e-mail to jonghyuk09@gmail.com. After sending your manuscript, if you do not get a confirmation of receipt of your submission within 2-3 business days, please resend your original email.

A guide for authors for preparing their papers can be accessed through <http://www.springerlink.com/content/101753/>

Contributing authors might be asked to review some of the papers submitted to this Special Issue.

This special issue additionally selects high quality papers (best papers) from the 4th International Symposium on Security and multimodality in Pervasive Environments, Perth, April 20-23, 2010.

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