

**GUEST EDITORIAL PREFACE**

# **Special Issue on Advances in Mobile Computing and Multimedia**

*Eric Pardede, La Trobe University, Australia*

In this special issue, we present selected papers presented at the Eight International Conference on Advances in Mobile Computing and Multimedia (MoMM'2010), held in Paris, France, from the 8<sup>th</sup> to the 10<sup>th</sup> of November 2010. The conference was held in co-location with the 12<sup>th</sup> International Conference on Information Integration and Web-based Applications and Services (iiWAS'2010).

The papers have been extended significantly from their conference version, to include a thorough literature review and more advanced result. After the review process, we are pleased to include the four papers in this issue.

In the first paper, Mokadem et al. investigate a mechanism to reduce overhead in a grid system. They propose a resource discovery technique that creates one gateway between overlays and thus, reduced the maintenance cost of the nodes in the system. The proposed technique is evaluated using cost analysis and it shows superior result to existing techniques.

Nickelsen et al. propose a Migration Service Platform (MSP) that control migratory applications to consider context information of their surroundings. The platform does not only enable the applications to monitor the context surrounding them, but also coordinates

the migration, handles the adaptation of the applications, and interacts with the users during the migration process. The framework, as well as the sample applications, are presented in the paper.

In the next paper, Al-Sudani et al. discuss The Complete Automatic Public Turing test to tell Computers and Humans Apart (CAPTCHA) as a concept, indicated by its name, to distinguish human beings from machines. CAPTCHA has been used widely in many internet applications, with main goal to facilitate secured response from the clients of an application. In this paper, the authors start by reviewing current CAPTCHAs. They proposed intelligent and multimedia CAPTCHAs that are found to provide stronger protection than existing CAPTCHAs.

In the last paper, Habib and Marimuthu, propose data collection management scheme in wireless sensor networks. The goal of the scheme is to utilize the information about residual energy available in sensors to determine their routing to the base stations. The authors implement their scheme using simulation, which shows improvement in energy usage saving in comparison to an existing scheme.

All of these selected papers have close connection to IJARAS, in a way that they provide

novel mechanisms to support the development, deployment, and maintenance of autonomous, resilience, and adaptive systems.

The guest editor and MoMM'2010 organizer would like to thank IJARAS Editor-in-Chief and IGI Global for the collaboration opportunity in this special issue. Finally, the guest editor would like to thank the authors

who have prepared their papers and submitted them in a timely manner.

*Eric Pardede*  
*Guest Editor*  
*IJARAS*