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Foreword

Ubiquitous computing and multimedia applications are areas that attract many academic and industry professionals. The goal of the International Conference on Ubiquitous Computing and Multimedia Applications is to bring together researchers from academia and industry as well as practitioners to share ideas, problems and solutions relating to the multifaceted aspects of ubiquitous computing and multimedia applications.

We would like to express our gratitude to all of the authors of submitted papers and to all attendees, for their contributions to and participation in UCMA 2011. We believe in the need for continuing this undertaking in the future.

We acknowledge the great effort of all the Chairs and the members of advisory boards and Program Committees of the above-listed event, who selected 15% of over 570 submissions, following a rigorous peer-review process. Special thanks go to SERSC (Science and Engineering Research Support Society) for supporting this conference.

We are grateful in particular to the following speakers who kindly accepted our invitation and, in this way, helped to meet the objectives of the conference: Sabah Mohammed of Lakehead University and Peter Baranyi of Budapest University of Technology and Economics (BME).

March 2011

Chairs of UCMA 2011

Preface

We would like to welcome you to the proceedings of the 2011 International Conference on Ubiquitous Computing and Multimedia Applications (UCMA 2011) which was held during April 13-15, 2011, at Hannam University, Daejeon, Korea.

UCMA 2011 is focused on various aspects of advances in multimedia applications and ubiquitous computing with computational sciences, mathematics and information technology. It provided a chance for academic and industry professionals to discuss recent progress in the related areas. We expect that the conference and its publications will be a trigger for further related research and technology improvements in this important subject. We would like to acknowledge the great effort of all the Chairs and members of the Program Committee. Out of around 570 submissions to UCMA 2011, we accepted 86 papers to be included in the proceedings and presented during the conference. This gives an acceptance ratio firmly below 20%. Regular conference papers can be found in this volume while Special Session papers can be found in CCIS 151.

We would like to express our gratitude to all of the authors of submitted papers and to all the attendees for their contributions and participation. We believe in the need for continuing this undertaking in the future.

Once more, we would like to thank all the organizations and individuals who supported this event as a whole and, in particular, helped in the success of UCMA 2011.

March 2011

Tai-hoon Kim
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