Preface

We are pleased to host the IEEE International Conference on Digital Game and Intelligent Toy Enhanced Learning (DIGITEL 2012), held from 27th to 30th March 2012, in Takamatsu, Kagawa, Japan. DIGITEL 2012 is the fourth event in a series of research conferences that began in 2007 in Jungli, Taiwan and were subsequently held in Banff, Edmonton, Canada in 2008 and in Kaohsiung, Taiwan in 2010.

DIGITEL 2012 is a premier conference focusing on research and practices for learning enhanced by state-of-art technologies related to games, toys, and entertainment. The conference covers all aspects of pedagogical principles and design and technological issues for digital games, intelligent toys, and entertainment applications to enhance learning. From a pedagogical perspective, video games and digital toys offer a new approach to designing for learning. From a technological perspective, digital games employ advanced computing, multimedia, and Internet technology, while intelligent toys utilize embedded chips and sensors together with wireless, mobile, and ubiquitous technologies.

We received 56 paper submissions this year. After a thorough review process, the Program Committee accepted 7 full papers and 11 short papers. We thank the members of the International Program Committee for their insightful reviews of the submitted papers within a short review period.

Whether you are new to the DIGITEL community or have participated in our prior events, we hope you will enjoy listening to stimulating talks, participating in inspiring demos, reading interesting papers, meeting new people, and reacquainting yourself with colleagues and friends. Takamatsu is a beautiful city located in the Shikoku Island of Japan and facing the Seto Inland Sea. Kagawa is famous for its traditional food (“Udon”, Japanese wheat noodle). The Shikoku Island has many wonderful places worth visiting with its abundant nature and history. We sincerely hope that you will enjoy this beautiful atmosphere, and we wish you a pleasant and enjoyable stay in Takamatsu and Japan in the cherry blossom season.

We are especially appreciative regarding the help and support we have received from Professor Hiroyuki Tarumi, Kagawa University, Japan and Professor Demetrios Sampson, the IEEE Learning Technology Task Force, for making the joint conference possible. We also would like to acknowledge the sponsorship of the IEEE Computer Society, IEEE Japan Council, Tateisi Science and Technology Foundation, Support Center for Advanced Telecommunications Technology Research Foundation (SCAT), Kayamori Foundation of Informational Science Advancement, Bennesse Corporation, and Kagawa University, which have supported us in organizing this joint conference.

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DIGITEL 2012 Program Chair

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