FOREWORD

The International Conference on Technology for Education provides a platform for researchers from academia and industry to discuss their work on the development of new technologies for education and pedagogical issues arising from the use of such technologies. These proceedings contain papers presented at the fourth International Conference on Technology for Education, T4E 2012. This conference is fully sponsored by IEEE and IEEE Computer Society. The conference was held at the International Institute of Information Technology (IIIT), Hyderabad, India from July 18-20, 2012.

The conference themes includes diverse topics such as development, implementation and assessment of new technologies to support education, studies comparing traditional, virtual and blended learning environments, growth and impact of open educational resources, mobile learning, creation and implementation of social networks in learning, virtual/online experimentation and scalable solutions, adaptive and personalized approaches for improving education. Care has been taken to delve into the application of effective technologies and pedagogical methods in the local Indian educational context. Over and above the conference themes, submissions included topics such as technologies for language learning and for dance teaching, and the use of information and communication technologies for non-formal education and community development.

T4E 2012 received a total of 141 submissions from 11 countries. Papers were received from faculty, staff and students from various educational institutions, as well as industry professionals. Each paper was reviewed by at least two reviewers in a double-blind process to maintain high quality. After the review process, 22 papers were selected as full papers, 20 as short papers and 13 as reflection papers. In addition, the conference contained 5 keynote presentations and 2 workshops.

The first event of this nature was held as the International Workshop on Technology for Education (T4E 2009) in Bangalore in August 2009 with 65 participants from 9 countries. Since then, T4E has been held annually as the International Conference on Technology for Education in the Indian Institute of Technology Bombay, Mumbai, in July 2010 (T4E 2010) with 120 participants from 14 countries, and in the Indian Institute of Technology Madras, Chennai in July 2011 (T4E 2011) with 80 participants from 9 countries. The first two events, T4E 2009 and T4E 2010, were technically co-sponsored by the IEEE Computer Society, while T4E 2011 was fully sponsored by IEEE Computer Society.

Editing the conference proceeding has been our pleasure and privilege. We are immensely grateful to the technical program committee members and reviewers for their work in reviewing and selecting these papers. We thank all authors who submitted papers, and all presenters who gave talks and presented posters. We are thankful to keynote and invited speakers whose presence made the conference especially productive. IIIT-Hyderabad generously provided the necessary infrastructure for hosting this conference. Finally we thank all organizing committee members and volunteers for their hard work and support.

We hope to interact with you all again at next year’s T4E.

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T4E 2012 editors