Guest Editorial Special Issue on the 2012 IEEE International Instrumentation and Measurement Technology Conference

The 29th Annual IEEE International Instrumentation and Measurement Technology Conference (I²MTC) was held in Graz, Austria, on May 13-16, 2012. Graz is the second largest city in Austria after Vienna and the capital of the state Steiermark. It is a well known student city within Austria with more than 44000 students in six universities. A total of 577 people participated in the conference, including 163 postgraduate students and 12 undergraduate students. The technical program consisted of a series of scientific and technical sessions, covering all aspects of theories and practice of metrology, measurement, instrumentation, and a wide range of applications, as reflected in part by the diversity of the papers. Following a review process, a total of 555 papers from all over the world were accepted, and were organized into 56 oral presentation sessions and five poster sessions. The oral presentation sessions included three invited keynotes and seven special sessions, which were closely aligned with the I²MTC 2012 conference theme "Smart Measurements for a Sustainable Environment." In particular, the special sessions attracted an overwhelming response from the community and were well attended.

Following the I^2 MTC 2012, a total of 159 papers that were extended substantially from their conference proceeding versions were submitted to this special issue. After a rigorous review process, 56 papers have been accepted for publication in this special issue. They not only present the latest developments in the field of instrumentation and measurement, but also offer possible solutions to existing problems. We hope that this special issue provides a good reference point for the researchers and practitioners, who are active in the field and will serve as a catalyst to trigger further investigations.

It has been our great pleasure to be the Guest Editors of this special issue. We would like to thank the authors for their excellent contributions, without which it would be impossible to have this special issue published. We are also grateful to the Associate Editors and all reviewers, who devoted their time and effort, on a voluntary basis, to ensure that all submissions were reviewed rigorously. The Editor-in-Chief, Prof. Alessandro Ferrero, and the IEEE transactions administrators, Ms. Cam Ingelin and Ms. Reta Wehmeier, are particularly acknowledged for giving us timely advice on guest editing this special issue.

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