

## **Welcome Message from the Chairpersons**

The organizing committee welcomes you to the 2012 IEEE International Conference on Virtual Environments, Human-Computer Interfaces, and Measurement Systems (IEEE VECIMS 2012), held in Tianjin, China, on 2-4 July, 2012. This meeting, sponsored by the IEEE Instrumentation and Measurement Society, is the tenth of a successful series that extends its roots back to the 1996 IEEE Workshop on Emerging Technologies for Instrumentation and Measurement, as a profound evidence of the continuous and even increasing interest in this research and applications area.

The three-day conference program aims to provide a forum for the attendees to carry out presentations, information exchanges, extensive formal and informal discussions on theory, methodology and applications in the field of interest of the conference, as well as to foster networking, planning for future collaborations and new research projects that will further extend and advance the use of virtual environments and human-computer interaction in the instrumentation and measurement field. We hope the conference will foster and discuss opportunities and challenges in using virtual environment and human-computer interfacing breakthroughs aiming to the advancement of instrument performance and measurement capabilities, and related applications. To promote interaction and discussion in the audience, sufficient time is allotted to presenters not only to introduce their achievements, but also to engage in extended discussions with the participants. Subjects of discussion include, but are not restricted to, critical evaluation of approaches and results, the rationale underlying particular methodologies, experimental and theoretical examinations, practical difficulties, insights, and extensions to other application areas.

The IEEE VECIMS 2012 conference is held in parallel with the 2012 IEEE International Conference on Computational Intelligence for Measurement Systems and Applications (IEEE CIMS 2012). Due to their many common aspects and shared technologies, this parallel organization will foster vivid and rewarding interaction among the participants of the two events, and contribute to sharing advanced knowledge and producing stimulating experiences as well as potential research synergies.

We hope you will find IEEE VECIMS 2012 a challenging and productive experience. We trust that you will also enjoy the location, the culture and the food: Tianjin will be an exciting experience!

### *Honorary Chairs*

John C.Y. Leong, Open University of Hong Kong, China  
Mel Siegel, Carnegie Mellon University, USA  
Fernando Lopez Pena, Universidade da Coruna, Spain

### *General Chairs*

Dong Ming, Tianjin University, China  
Yong Hu, The University of Hong Kong, China  
Shervin Shirmohammadi, University of Ottawa, Canada  
Stefano Ferrari, Università degli Studi di Milano, Italy

### *Technical Program Chairs*

Guizhi Xu, Hebei University of Technology, China  
Jiying Zhao, University of Ottawa, Canada  
Richard J. Duro, Universidade da Coruna, Spain