WCSE 2010 Preface

Professor Boehm of the Center for Software Engineering, University of Southern California, USA, indicated eight trends of software engineering including the increasing integration of software engineering and systems engineering, increasingly rapid change, increasing SIS globalization and need for interoperability, and increasingly complex systems of systems (Boehm, 2006). Professor Peter Liggesmeyer of the University of Kaiserslautern, Germany, also indicated that over the last 20 years, the trend of software engineering has led to an enormous increase in software complexity (Liggesmeyer and Trapp 2009).

In recent years, there has been a growing demand for insights into challenges, issues, and solutions related to the theory and practice of software engineering. To respond to the market needs from both academic researchers and practitioners for communicating research results, WCSE 2010 will be held in Wuhan, China, December 19–20, 2010. The number of submissions received for this conference reached 336, of which 148 (44.04%) were selected for inclusion in this proceedings after a rigorous review process. This conference is intended to provide an international forum for researchers in academia and industry to present their most recent findings in software engineering. The purpose of this conference is to report on the state of the art of, and emerging trends in, research and practice in software engineering. To prepare for this conference, all authors were asked to respond to rigorous peer review. The papers included share the common theme of software engineering theory and practice. The proceedings will be published by the IEEE Conference Publishing Services.

We are very pleased that WCSE 2010 is being held in Wuhan, the capital of Hubei province, China. Wuhan is one of the most populous cities in China, and also the scientific and educational center of Central China, with more than 50 higher educational institutions such as Wuhan University, Huazhong University of Science and Technology, and Wuhan University of Technology, which cover all fields of science and technology related to software engineering. Wuhan has been considered a major scientific and educational base with a high ranking in China. Due to the trend of increasing integration of software engineering and systems engineering, and the trend of increasingly complex systems of systems, software engineering is one of main research areas at the Institute of Systems Science and Engineering, Wuhan University of Technology.

Under the direct leadership of late Chinese Premier Zhou En-Lai and Vice Premier Chen Yi, China began researching and developing computing technology including software engineering as early as 1956. A milestone for this was the establishment of the Institute of Computing Technology within the Chinese Academy of Sciences in 1956. Zhou provided a detailed introduction to software engineering development in China in his article in IEEE Software (Zhou, 1989). From this conference, it is not difficult to find that, in China, software engineering research and development is evolving and growing steadily as China emerges as an economic powerhouse of the 21st century.
WCSE is an international conference. I hope this conference will provide our participants with an avenue to gain a global perspective on software technology and applications. I would especially like to thank the World Research Institutes (WRI) for sponsoring this conference. On behalf of the WCSE 2010 Organizing Committee, we would specially like to thank Professor Xinhan Huang (Co-General Chair, HUST), Professor Zu De Zhou (Co-General Chair, Ex-President of WUT), Dr. Juhnyoung Lee (Co-Program Chair, IBM T.J. Watson Research Center, USA), Professor Ricardo Valerdi (Co-Program Chair, MIT, USA), Professor Pan Wang (Co-Program Chair, WUT), Professor Chris Zhang (Co-Program Chair, University of Saskatchewan, Canada), Dean Ming Ran Deng (WUT), Professor Ke Fan Xie (WUT), and Professor Qing Ping Guo (WUT) for their support and guidance throughout this endeavor. We are also deeply grateful to all IPC members and the many individual reviewers who worked with us so diligently. Without their time and effort, this conference would never have been possible.

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References

