EDITORIAL

Sixth World Congress on Industrial Process Tomography (WCIPT6)

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EDITORIAL

Sixth World Congress on Industrial Process Tomography (WCIPT6)

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We are pleased to publish this special feature on the Sixth World Congress on Industrial Process Tomography (WCIPT6) in Measurement Science and Technology. The international congress was successfully held in the campus of Beihang University, Beijing, China, from 6–9 September 2010. It was jointly organized by International Society for Industrial Process Tomography (ISIPT), North China Electric Power University (NCEPU) and Beihang University (BUAA).

Process tomography is a tangible tool to visualize and determine the material distribution inside a process non-intrusively in real time. The internal features that can be monitored by process tomography are frequently encountered and required in the design of processes and industrial plants in the fields of chemical, oil, power and metallurgical engineering as well as many other activities such as food, material handling and combustion systems. One of the key characteristics of process tomography is to provide a direct impression and instant and clear understanding of a complex phenomenon. From the viewpoint of practical applications, industries all over the world are currently facing a number of daunting challenges including many wide-range and complex technical problems. The innovative technology of process tomography consistently contributes to providing better and better solutions to the problems as ‘seeing is believing’. As a regular event, WCIPT is playing a more and more important role in addressing the challenges to overcome these problems. We are glad to see that this special feature provides a great opportunity for world-wide top-level researchers to discuss and make further developments in process tomography and its applications. The 20 articles included in this issue cover a wide range of relevant topics including sensors and sensing mechanisms, data acquisition systems and instrumentation, electrical, optical, acoustic and hybrid systems, image reconstruction and system evaluation, data and sensor fusion, data processing, other emerging technologies, and their industrial applications such as in multi-phase systems, combustion and chemical reaction, etc.

The Seventh World Congress on Industrial Process Tomography (WCIPT7) will take place in Krakow, Poland, from 2–5 September 2013. We look forward to meeting you in Poland!