2013 IEEE International Conference on Imaging Systems and Techniques (IST'2013)

22-23 October 2013, Beijing, China

Sponsored by IEEE Instrumentation and Measurement Society

**In conjunction with the IEEE International School of Imaging (ISI)
21 October, Beijing, China**

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Following the success of events in Stresa, Italy 2004, Niagara Falls in Canada 2005, Minori in Italy 2006, Krakow in Poland 2007, Chania in Greece 2008, Shenzhen in China 2009, Thessaloniki in Greece 2010 Penang in Malaysia 2011 and Manchester in the UK 2012, the 2013 IEEE International Conference on Imaging Systems and Techniques (IST'2013) will take place in Beijing, China.

IST'2013 deals with the design, development, evaluation and applications of imaging systems, instrumentation, and measuring techniques, to enhance detection and image quality. Applications for aerospace, medicine and biology, molecular imaging, metrology, Ladars and Lidars, radars, homeland security, and industrial imaging, with emphasis on industrial and medical tomography, corrosion imaging, and non-destructive evaluation (NDE), will be covered. The following areas will be particularly considered:

- Aerospace imaging
- Remote sensing, passive and active sensing
- Ladars and Lidars
- Polarimetric Imaging
- Multi-spectral polarimetric imaging and Lasers
- Medical Imaging
- Computer Tomography (CT), Single Photon Emission Tomography (SPECT)
- Positron Emission Tomography (PET), Magnetic Resonance Imaging (MRI)
- Molecular and metabolic imaging
- Cancer detection and imaging of margins
- Electric Impedance Tomography
- Environmental monitoring, energy resources
- Real-time imaging and video processing
- Subsurface inspection, corrosion imaging
- Airport security and cargo inspection
- Electromagnetic imaging and inverse scattering
- Image analysis and processing
- Pattern recognition and feature extraction
- Image transformations
- Statistical description of images
- Wavelets and fractals
- Image enhancement and restoration
- Image segmentation and edge detection
- Image processing for multispectral images. With an emphasis on:
- Detector design principles and image formation
- Imaging system design and instrumentation
- Signal and image analysis
- Pre-processing and post-processing
- Multi-functional and multi-fusion imaging
- Emerging trends on imaging

It is planned to be arranged with Measurement Science and Technology (IOP) journal for publishing a special issue after the conference.

About Beijing and Vision Hotel:

Beijing is the capital of China and one of the most populous cities in the world. It is the nation's political, cultural, and educational center. It is also the home to the headquarters of most of China's largest state-owned companies, and it is a major hub for the national highway, railway and high-speed rail networks, while Beijing Capital International Airport is the second busiest in the world in terms of passenger traffic. Beijing offers a variety of cultural events together with thriving night life scene and top class events. Beijing is a perfect walking city, stroll along the streets, exploring the mixture of old and new architecture. Soak up the urban vibe, speak to people of the city and expect a warm welcome, this is a city that embraces all its visitors. Beijing is easy to get to and perfectly positioned to discover all of China's North Country. Vision Hotel Beijing, the Conference hotel, is a five-star top-level business hotel, located in Xueyuan Road of Haidian District in Beijing. Vision Hotel Beijing sits at the core of

Olympic Circle and Universities Circle. Vision Hotel Beijing has superior geographic location and convenient

traffic.

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Tours
Tours to The Great Wall, Forbidden City, Temple of Heaven, Summer Palace, Birdnest will be arranged.