

# 2010 IEEE International Conference on Imaging Systems and Techniques (IST 2010)

Thessaloniki, Greece, 1-2 July 2010



## Call for Papers

**Abstract due: 14 March 2010**

**Notification of acceptance: 10 March 2010**

**Full paper due: 5 May 2010**

Sponsored by the IEEE Instrumentation and Measurement Society  
Organised by IEEE I&M TC-19 Technical Committee



Following the success of IEEE Workshops on Imaging Systems and Techniques, Stresa, Italy in 2004, Niagara Falls, Canada in 2005, Minori, Italy in 2006, Krakow, Poland in 2007, Chania, Island of Crete, Greece in 2008, and Shenzhen, China, in 2009, the 2010 IEEE Conference on Imaging Systems and Techniques (IST 2010) will take place in Thessaloniki, Greece.

IST 2010 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, lidar and lidars, radars, homeland security, and industrial imaging with emphasis on industrial tomography, corrosion imaging, and non-destructive evaluation (NDE) will be covered. The following areas will be particularly considered:

- Detector design principles and image formation
- Imaging system design and instrumentation
- Signal and image analysis
- Linear and non-linear processing techniques
- Medical imaging and bio-nano-photonics
- Environmental monitoring, energy resources
- Molecular imaging and metabolic imaging
- Remote sensing, passive and active sensing
- Ladars and Lidars
- Multispectral Polarimetric Imaging and Lasers
- Subsurface inspection, corrosion imaging
- Radiation detection, airport security and cargo Inspection-standoff detection techniques
- Electromagnetic imaging and inverse scattering

**A Special Feature within Measurement Science and Technology Journal, IOP, will be published after the Conference. Submission Deadline: October 31, 2010. Publication Date: July, 2011.**

### **About Thessaloniki, Greece**

Thessaloniki is one of the largest cities in Greece with great historical and cultural significance, and capital of the Greek region of Macedonia, owing its name to the sister of Alexander the Great, named Thessaloniki. It is a major Mediterranean port city built amphitheatrically and located in the northern part of Greece in a unique geographical location surrounded by sea and mountains, in the vicinity (50 km) to the famous and highly touristic peninsula of Chalkidiki where the great Greek philosopher Aristotle was born and taught. Thessaloniki is considered a cultural, touristic, industrial, commercial and political centre and a major transportation hub for the rest of southeastern Europe.

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