



2016 IEEE INTERNATIONAL CONFERENCE ON IMAGING SYSTEMS AND TECHNIQUES (IST 2016)

October 4-6, 2016 || Panorama Hotel - Chania, Crete Island, Greece

CALL FOR PAPERS

High-Quality Papers will be peer-reviewed and published, under Special Issues, into the S.I Journals of "Biomedical Signal Processing and Control (BSPC)", Elsevier, and "Multimedia Tools and Applications (MTAP)", Springer.

The IEEE International Conference on Imaging Systems and Techniques will take place jointly with the IEEE International School of Imaging in the picturesque city of Chania, Crete Island, Greece, October 4-6, 2016. The Institute of Electrical and Electronics Engineers (IEEE) is the world's largest professional association, with nearly 500,000 members, dedicated to advancing technological innovation and excellence for the benefits of humanity.

Engineers, scientists and medical professionals from industry, government, academia, and healthcare who want to bridge technology and clinical disciplines in the multidisciplinary areas of imaging, spectroscopy and medical diagnostic device industry, are invited to attend the IST Conference and interact with major worldwide experts, aimed at advancing the science of imaging, the development of visualization technologies. The scope of the IST is to increase the understanding of pathophysiology and metabolism and measure therapeutic efficacy; exploring multifaceted design principles and new applications of imaging that would lead ultimately to novel devices and technologies, standards and metrology, and systems with unsurpassable image quality, scalability, reconfigurability, and miniaturization capabilities.

The objectives of IST 2016 are to explore physical, engineering, molecular, biochemical and imaging principles. It is important that these principles focus on the advancement and generation of new knowledge related to the design, development, and applications of a range of imaging and spectroscopy technologies, devices, instruments, systems, and techniques, including but not limited to:

Medical Diagnostics, Theranostics, Pharmaco-Imaging in Drugs and Medicine

- Medical diagnostics
- Translational imaging and theranostics
- Bioinformatics, immunohistochemical digital imaging
- Molecular imaging and biology, Omics, biomarkers, metabolites
- Pharmaco-imaging in drugs and medicine, drug characterization

Neuro-inspired computer vision

- Bio-inspired Vision, Hybrid-vision Systems

Image processing and pattern recognition

- Imaging Devices, Modalities and Techniques
- Cameras, microscopy, spectroscopy, displays, device miniaturization
- Optical polarimetric reflectance spectroscopy, optical multispectral imaging, narrow band imaging, Raman scattering, laser acoustics, high magnification bronchovideoscopy, fluorescence and autofluorescence
- Optical coherence tomography (OCT), MRI, PET, SPECT, CT, ECT, microwave imaging, nanoimaging
- Robotics, and surgical guidance imaging
- Image processing and pattern recognition
- Emerging imaging trends

Remote Sensing

- Remote sensing, surveillance, ATR, ladars & lidars
- Autonomous aerial and underwater imaging systems
- Advanced space instruments and satellite imaging
- Sensors for aerospace applications
- Image processing and pattern recognition

Visualization, Inspection, Characterization, and Manufacturing

- Semiconductor wafers, solar cells, nanomaterials, biomaterials and composites
- Active-passive sensors and illumination technologies
- Pharmaceutical and food processing vision inspection systems
- Image processing and pattern recognition

Initial Full Paper Deadline: **JUNE 6, 2016**
 Notification of Acceptance: **JUNE 20, 2016**
 Full Paper Deadline: **JULY 20, 2016**

Sponsored by IEEE Instrumentation and Measurement Society, and TC 19 Technical Committee on Imaging Systems
In conjunction with the IEEE International School of Imaging



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