

CALL FOR PAPERS

ELMAR 2011 Special Session on IR Imaging and Thermography Applications

NEW TOPIC!

Medical Thermography

as a Green Health Imaging Technology

The latest research being conducted with the use of thermal imaging techniques illustrate the diversity of applications for infrared thermal imaging, and its successful implementation in medicine. With the explosion of Infrared thermal imagers on the market for all types of applications, the medical or health care area remains very specific with its requirements for obtaining high quality and consistent thermograms at space and time domain. Imaging environment controls, patient or subject preparation, capturing capabilities, technician training, and image processing features are all factors to be considered with usage of an infrared thermal imaging system. The multidimensional and multispectral (Visible and IR up to 14 μ m) open new technical predispositions to improve and define the exact new noninvasive and chipper Green Health Imaging technology.

Infrared thermography also known as thermal imaging can provide accurate, nondestructive information about the thermal envelope performance of any 3D objects. This includes validation of structural details, verification of energy distribution performance and system analyses. Based of that there are a large scientific challenge and number of applications recognising in this Special Session topics.

Topics:

- **Green Health Imaging Technology**
- Building energy audits and diagnosis
- Health and medical monitoring/research
- Medical diagnoses and equipment
- Fire detection and Firefighting
- Maritime inspection
- Ship Surveillance technology

- Electrical and Mechanical inspection
- Process control monitoring

Paper submission deadline: April 29, 2011

Special Session Organizers:

Prof. Karolj Skala and Dr. Darko Kolaric

Rudjer Boskovic Institute

Centre for Informatics and Computing

Zagreb, Croatia

Operative Secretary - Paper Submissions:

Jelena Cubric

Bijenicka c. 54

10000 Zagreb

Phone: + 385 98 209 816

Fax: + 385 468 0212

E-mail: jelena.cubric@irb.hr