

Digital Mammography

Thematic Session within VipIMAGE2011

III ECCOMAS Thematic Conference on Computational Vision and Medical Image Processing

Olhão, Algarve, Portugal, 12-14 October 2011

www.fe.up.pt/~vipimage

www.fe.up.pt/~vipimage/conference/thematic_sessions.html

Description

Breast cancer is a deadly disease and one of the types with higher incidence. It is asymptomatic at earlier stages, but it has a high survival rate at this stage. Studies have indicated that cure rates dramatically increase if the breast lesion can be detected at a size less than 1 centimeter, which is too small for the lesion to be palpable. The only way a small lesion like this can be detected is through screening mammography. However, traditional screen-film mammography is limited in its ability to detect some cancers, especially those occurring in women with radiographically “dense” breasts. For this reason, extensive research efforts to improve mammography have occurred.

Digital mammography was developed in part to address some of the limitations of screen film mammography for cancer detection.

The aim of this thematic session is to present and discuss recent developments and future prospects in some fields of digital mammography and to bring together multidisciplinary approaches.

Topics of interest include (but are not restricted to):

- Full-Field Digital Mammography (FFDM)
- Computer-Aided Detection & Discrimination (CAD)
- Multi-Modality Breast Imaging Techniques (MRI, PET, FFDM, etc.)
- Tomosynthesis and Computed Tomography Breast Imaging
- Digital Image Processing in mammography
- Clinical Applications of Digital Breast Imaging Systems

Publications

The **book of proceedings will be published by Taylor & Francis Group**. The organizers will encourage the submission of extended versions of the accepted papers to related International Journals; in particular for special issues dedicated to the conference.

A **book with 20 invited extended works** from the most important ones presented in conference will be **published by SPRINGER**.

Important dates

- **Submission of extended abstracts: March 15, 2011**
- Authors Notification: April 15, 2011
- Lectures and Final Papers: June 15, 2011

Organizers

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