



ELSEVIER

Available online at www.sciencedirect.com

Computerized Medical Imaging and Graphics xxx (2008) xxx–xxx

**Computerized
Medical Imaging
and Graphics**

www.elsevier.com/locate/compmimedimag

Announcement

Computerized Medical Imaging and Graphics is seeking original and unpublished manuscripts for a special issue on Skin Cancer Image Analysis, scheduled for publication in 2010.

Invasive and in situ malignant melanoma together comprise one of the most rapidly increasing cancers in the world. Invasive melanoma alone has an estimated incidence of 62,480 and an estimated total of 8420 deaths in the United States in 2008. Early diagnosis is particularly important since melanoma can be cured with a simple excision if detected early.

In the past, the primary form of diagnosis for melanoma has been unaided clinical examination. In recent years, dermoscopy has provided increased ability to observe pigmented lesion structures. However, dermoscopy remains difficult to learn and subjective, and several studies have confirmed the limits of unaided dermoscopy. Newer technologies, including digital dermoscopy, infrared imaging, multispectral imaging, and confocal microscopy, have recently come to the forefront in providing greater diagnostic accuracy. These imaging technologies can serve as an adjunct to physicians and in some implementations could provide fully automated skin cancer screening potential. Although computerized techniques cannot as yet provide a definitive diagnosis, they can be used to improve biopsy decision-making as well as early melanoma detection in the clinic, especially for patients with multiple atypical nevi, congenital nevi, and other clinical presentations.

This special issue aims to cover all aspects of skin cancer image analysis. Topics of interest include, but are not limited to:

- Image enhancement;
- Image registration;
- Border detection;
- Feature extraction;
- Feature selection;
- Classification;
- Image analysis aspects of new and emerging imaging modalities;

Submission procedure

Authors are encouraged to submit papers in either of two categories - Original Research or Technical Notes.

Submitted manuscripts must be unpublished and may not be under consideration elsewhere. Manuscripts should be in double-spaced, single-column format, with a font size of 11 points or larger and a margin of at least 1 inch on all sides. For Original Research, the manuscript may not exceed 20 pages including title, names of authors and their complete contact information, abstract, text, images, figures, tables, and references. Technical Notes should not exceed 8 pages, inclusive of all above material. Manuscripts should conform to the standard guidelines of *Computerized Medical Imaging and Graphics*. Prospective authors should submit an electronic copy of their manuscript through the CMIG online submission system at <http://ees.elsevier.com/cmig>. Papers should be marked as “Special Issue: Skin Cancer Imaging” in the Article Type section and “Skin Cancer Image Analysis” special issue should be mentioned in the cover letter. Each paper will be reviewed by at least two independent reviewers. Editorial decisions will be made within 60 days after manuscript receipt.

All submissions should be sent to the editor by May 31st 2009 at the latest. We anticipate publishing the special issue early in 2010.

All colour images will appear online at no cost to the author; however, a charge will be made for colour reproduction in print.

Guest Editors

M. Emre Celebi

*Department of Computer Science, Louisiana State University,
Shreveport, LA, USA*

William V. Stoecker

Stoecker & Associates, Rolla, MO, USA

Randy H. Moss

*Department of Electrical and Computer Engineering,
Missouri University of Science and Technology,
Rolla, MO, USA*

*E-mail addresses: ecelibi@lsus.edu (M.E. Celebi),
wvs@mst.edu (W.V. Stoecker),
rhm@mst.edu (R.H. Moss)*