

## Special Track Call for Papers

# Image Informatics in Biomedical Research and Clinical Medicine

### TRACK CHAIRS

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CFP AVAILABLE AT: <http://archive.nlm.nih.gov/conf/cbms2010/index.php>

Images play a significant role in biomedical research and clinical medicine. Over the decades, contributions by engineers, computer scientists, physical scientists, and mathematicians in collaboration with clinicians and biomedical researchers have made a significant impact on the practice of healthcare. This impact would not have been possible without the significant steps necessary to make imaging and image informatics a routine component of computer-based medical systems. Research into all of the topics of image acquisition, imaging device to computer/archive communication, image enhancement, object segmentation, image registration, databases, rendering, compression, transmission, image informatics, image retrieval, and systems and tools development, has been necessary. Even with the advances that have been made the present role of imaging is insignificant in comparison to the envisaged capabilities and potential benefit.

The 23<sup>rd</sup> IEEE International Symposium on Computer-Based Medical Systems invites original previously unpublished contributions that are not submitted concurrently to other venues for consideration (journals, conferences, meetings, etc.) for this Special Track. Authors of high-quality articles that describe novel contributions in the topics listed below, in the form of methods or tools that have made or had demonstrated the potential to make a significant impact in clinical medicine or biomedical research, are strongly encouraged to submit their work for peer review and consideration for publication in the conference proceedings. Note that position papers and reports on initial and intended work that may be suitable for workshop presentation are considered inappropriate for the Special Track.

### TOPICS

The topics for the special track include, but are not limited to, the following:

- Clinical Image Informatics
- Content-Based Image Retrieval (CBIR)
- Clinical Decision Support Systems (with images)
- Biomedical Multimedia Databases
- Software Tools
- Image Processing (Enhancement, Content-Analysis, and Segmentation)
- Image Compression, Transmission and Web-Base Delivery

- Game-Based Methods for Biomedical Applications

## IMPORTANT DATES

**June 24, 2010** Paper submission due  
August 2, 2010 Notification of acceptance  
September 2, 2010 Final camera-ready paper due  
September 2, 2010 Another Registration

## SUBMISSION PROCEDURES

Each contribution must be prepared following the [IEEE Computer Society 2-column format](#), should not exceed the length of 6 (six) U.S. letter-size (8½" x 11") pages, and must be submitted electronically before the paper submission deadline. All submissions including special track papers should be made via the CBMS Web site that will be open approximately one month before the deadline. Prospective authors should choose the track: **Image Informatics in Biomedical Research and Clinical Medicine** when submitting the article. All submissions will be peer-reviewed by at least three reviewers of the Special Track Program Committee. Accepted papers will be included in the conference proceedings published by [IEEE Computer Society](#). At least one author must register for the conference for each accepted paper by September 2, 2010. Please consult the conference Web site for further information.