The IEEE International Symposium on Biomedical Imaging (ISBI) is the premier forum for the presentation of technological advances in theoretical and applied biomedical imaging. ISBI 2010 will be the seventh meeting in this series. The previous meetings have played a leading role in facilitating interaction between researchers in medical and biological imaging. The 2010 meeting will continue this tradition of fostering crossfertilization among different imaging communities and contributing to an integrative approach to biomedical imaging across all scales of observation.

ISBI is a joint initiative of the IEEE Engineering in Medicine and Biology Society (EMBS) and the IEEE Signal Processing Society (SPS). The 2010 meeting will feature an opening morning of tutorials, followed by a scientific program of plenary talks, special sessions, and oral and poster presentations of peer-reviewed contributed papers.

Confirmed plenaries
- Richard Ehman (Mayo Clinic, USA) on new clinical imaging technologies
- Clemens Löwik (LUMC, The Netherlands) on molecular imaging and applications
- Jason Swedlow (University of Dundee, UK) on challenges in bioimage informatics
- Milan Sonka (University of Iowa, USA) on challenges in biomedical image analysis

High-quality papers are solicited containing original contributions to the mathematical, algorithmic, and computational aspects of biomedical imaging, from nano- to macro-scale. Topics of interest include image formation and reconstruction, computational and statistical image processing and analysis, dynamic imaging, visualization, image quality assessment, and physical, biological, and statistical modeling. Papers on molecular, cellular, anatomical, and functional imaging modalities and applications are welcomed. All accepted papers will be published in the proceedings of the symposium and will be available online through the IEEE Xplore database.

Important dates
- Deadline for submission of 4-page paper: November 2, 2009
- Notification of acceptance/rejection: January 15, 2010
- Submission of final accepted 4-page paper: February 15, 2010
- Deadline for author registration: February 15, 2010
- Deadline for early registration: March 1, 2010

Venue
Congress Center
“De Doelen”
Rotterdam
The Netherlands

Further information is available at http://www.biomedicalimaging.org/2010/