Welcome to ISBI 2010

On behalf of the Organizing Committee we are pleased to welcome you to Rotterdam, the Netherlands, for the seventh edition of the IEEE International Symposium on Biomedical Imaging: From Nano to Macro (ISBI), and the second occasion that the meeting is held in Europe. Being the most important commercial city of the Netherlands, and one of the largest ports in the world, Rotterdam is increasingly seen as the front door of Europe. We hope you will enjoy the dynamic townscape and well-developed cultural infrastructure of this most internationally oriented city of the country.

Sponsored by the IEEE Engineering in Medicine and Biology Society (EMBS) and the IEEE Signal Processing Society (SPS), ISBI has been a premier platform for interaction between researchers in the various fields of biological and medical imaging ever since its inception in 2002. This year's meeting begins on the morning of April 14 with tutorials on several key topics in biomedical imaging. The meeting formally opens in the afternoon and consists of three days of plenary talks, invited special sessions, and contributed oral and poster sessions. Reflecting the breadth of the field, the program features presentations on the physical, mathematical, and computational aspects of image formation, image processing, analysis, and visualization, in a great variety of molecular, cellular, anatomical, and functional imaging applications. In addition to the technical program, two social events have been planned, including a reception in the Town Hall of Rotterdam on Wednesday evening and a banquet on a boat trip through the impressive port of Rotterdam on Friday evening.

In total 640 papers were submitted to this year's meeting. To ensure high quality of accepted papers, each submitted paper was sent out to four expert reviewers, with one reviewer from one of the IEEE Technical Committees involved in ISBI: Biomedical Imaging and Image Processing (BIIP from EMBS) and Bio Imaging and Signal Processing (BISP from SPS). Based on the reviewers' recommendations, the Paper Selection Committee finally accepted 96 papers for oral presentation, and another 244 for poster presentation. For the first time in the history of ISBI, three of the best papers authored by students were carefully selected by members from BIIP and BISP, and will receive a Best Student Paper Award at the meeting. In addition to contributed presentations, 32 talks on key topics were invited by the Organizing Committee for inclusion in special sessions. We thank all authors for choosing to submit their work to ISBI 2010. All papers presented at the meeting are included in the proceedings and will be available online through the IEEE Xplore database.

We gratefully acknowledge the help of all those involved in the planning and organization of the meeting. Zhi-Pei Liang was a great advisor in selecting topics and potential speakers for the plenary sessions. Jelena Kovačević was indispensable in organizing the exciting tutorials that precede the meeting. Boudewijn Lelieveldt put together an excellent set of special sessions. Daniel Rueckert was instrumental in promoting the meeting, as was Atam Dhawan in arranging NSF support for the meeting, and Max Viergever in finding additional financial support in these difficult times. Many thanks also to Désirée de Jong and Petra 't Hart-Assems, for dealing with the local organization, as well as to Laura Wolf (Executive Director of EMBS) together with her staff, for their invaluable advice and support, and to the staff of

Conference Management Services, Inc. (CMS), in particular Billene Mercer and Lance Cotton, for their great assistance in countless logistic matters, including paper handling and registration. We thank the reviewers and the members of the various support committees for donating precious time and effort in ensuring a high level of quality of the program. We also thank the PhD and MSc students from Erasmus MC and TU-Delft for their hands-on assistance throughout the meeting. Finally, we acknowledge financial support from Rotterdam Marketing, Erasmus MC, NSF, GE Healthcare, MiLabs, Pie Medical Imaging, and Springer.

ISBI has been an annual meeting since 2006. Next year's meeting will be organized in Chicago, Illinois, USA. In the meantime, we wish you an enjoyable ISBI here in Rotterdam!

Wiro Niessen
General Chair

Erik Meijering
Program Chair