

IEEE/NIH Life Science Systems & Applications Workshop 2009 (LiSSA '09)



Deadlines:

Nov. 28, 2008: Four page papers due
Dec. 19, 2008: Acceptance notification
Jan. 16, 2008: Final camera-ready papers
Apr. 9, 2009: Workshop dates

Organizing Committee

General Co-chairs:

Karen Peterson NIBIB/NIH
Ut-Va Koc Alcatel-Lucent Bell Labs

Technical Program Co-chairs:

Pau-Choo Chung National Cheng Kung U., Taiwan
Wai-Chi Fang National Chiao Tung U., Taiwan
Thomas Gong Nanyang Tech. U., Singapore
Mototaka Senda Rainbow Bioscience

Tutorial Co-chairs:

Roger L. Miller NIDCD/NIH
Li Cheng-Sheng IBM Research

Special Sessions Co-chairs:

David Balshaw NIEHS/NIH
Stephen T Wong Methodist Hospital-Cornell University

Publicity Co-chairs:

Joseph Chang Nanyang Tech U., Singapore
Richard Fisher NEI/NIH
Nancy E. Miller NIH
Fred Prior Washington University

Publication Chair:

Jie Chen University of Alberta, Canada

Financial Co-chairs:

Marc Rigas CSR/NIH
Stephen T Wong Methodist Hospital-Cornell University

Local-arrangement Co-chairs:

Milton Corn NLM/NIH
Hual Li NIA/NIH

Contact Information:

Stephen T Wong Methodist-Cornell (stwong@tmhs.org)
Karen Peterson NIBIB/NIH (kpeterse@mail.nih.gov)
Ut-Va Koc Bell Labs (u.koc@ieee.org)



Thursday, April 9, 2009 - Friday, April 10, 2009
NIH Campus, Bethesda, Maryland, USA



Call for Papers

The fourth annual IEEE-NIH Life Science Systems and Application (LiSSA'09) workshop *co-sponsored* by IEEE (www.ieee.org) and the National Institute of Health's Nano Task Force and *endorsed* by Biomedical Information Science and Technology Initiative (BISTI, www.bisti.nih.gov/bistic2.cfm) will be held on the NIH Campus in April 2009. LiSSA'09 welcomes original technical papers on the advancement of life and health science systems and applications. LiSSA'09 provides a forum where engineers can seek critical issues requiring sophisticated engineering techniques and scientists can find potential engineering collaborators. To facilitate this cross-disciplinary interaction, global leaders from academia, industry, and government will be invited to address challenges facing in this year's theme of nanomedicine (nanomedcenter.org) from both biomedicine and engineering perspectives -- in particular, the advances made and barriers such as toxicity of nano-probes in imaging for diagnostics and therapy delivery and of nano-devices in bodies or environments. Special sessions from several IEEE societies will be included in the workshop.

This call for papers solicits original papers for oral and poster sessions which are designed to be highly interactive. Those interested should submit a 4-page manuscript in the IEEE format describing original work. The accepted papers will be published in electronic archives of IEEE Xplore digital library and will also be distributed by CD-ROM at the workshop. Selected papers will also be invited to be expanded into special issues in IEEE journals and book volumes. Acceptance will be based on quality, relevance, and originality. Best student papers will also be awarded.

Areas of Interest in new life science technologies and applications, including those of nanomedicine (but not limited to):

- Bioelectronic interfaces
- Biomarkers discovery and development
- Biomechanics and miniature instrumentation
- Biosensors and biosensor networks
- Drug discovery and development
- Embedded nanodevices
- Gene and cell therapy
- Image computing and informatics
- Image-guided diagnosis and therapy
- Imaging tracers and molecular imaging
- Medical nanodevices and nanorobots
- Novel applications of nanotechnology
- Predictive, preventive, and personalized medicine
- Simulation, modeling, and molecular visualization
- Targeted therapeutics

LiSSA'09 will feature invited talks and special panel sessions for technologies and applications in nanomedicine, in addition to scientific sessions in life science systems and applications. For detailed submission instructions, please visit the workshop web page at: <http://lissa.wustl.edu>