

CAPH'08

MICCAI 2008 WORKSHOP ON THE COMPUTATIONAL ANATOMY AND PHYSIOLOGY OF THE HIPPOCAMPUS

9/6/2008, New York, NY, USA



CALL FOR PAPERS

The hippocampus is a structure of acute interest in biomedical imaging research. This interest is driven by the unanswered questions about its precise role in the memory system, its unique involvement in neurodevelopmental and neurodegenerative disorders, its ability to serve as an early biomarker in Alzheimer's disease, and many other factors. The complex folding anatomy of the hippocampus presents challenges for general whole-brain analysis frameworks and calls for dedicated, hippocampus-specific methods. In recent years, many specialized techniques for segmenting, measuring and mapping the hippocampus have been introduced. CAPH'08 will offer a venue for disseminating these exciting new developments and collectively addressing the challenges still faced by the field.

WORKSHOP TOPICS

Papers are invited in all areas of research involving hippocampus-focused imaging analysis, including

- automatic and semi-automatic segmentation of the hippocampus
- mapping and segmentation of hippocampal subfields
- geometric modeling and shape analysis
- hippocampus-centric normalization and atlas generation
- validation approaches for manual and automatic techniques
- histology and postmortem imaging analysis
- fusion of information from postmortem, in vivo and animal imaging
- longitudinal and cross-sectional morphometry studies of disease, healthy aging/development
- fMRI and DTI analysis techniques focusing on the hippocampus

Papers submitted to the main conference or other MICCAI workshops may be double-submitted to CAPH-08.

ORGANIZERS

Paul Yushkevich, Ph.D.
Lei Wang, Ph.D.

University of Pennsylvania
Washington University

PROGRAM COMMITTEE

John G. Csernansky, M.D.
Sarang Joshi, D.Sc.
Paul Thompson, Ph.D.
Michael W. Weiner, M.D.
Chris Zarow, Ph.D.

Northwestern University
University of Utah
UCLA
VA Medical Center, San Francisco; UCSF
University of Southern California

IMPORTANT DATES

May 23, 2008:
Paper submission (extended)

July 2, 2008:
Notification of acceptance

August 18, 2008:
Camera-Ready Papers

September 6, 2008:
Workshop (8am to 5pm)

PROGRAM

Paper Presentations:
8-12 oral presentations with ample time for questions; a few posters may be accepted.

Invited Speaker:
Susanne Mueller, M.D.
Assistant Adjunct Professor
Center for Imaging of Neurodegenerative Diseases, VA Medical Center, San Francisco

VENUE

The Kimmel Center
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<http://picsl.upenn.edu/caph08>