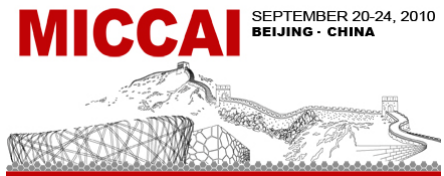


# CDMRI'10

## MICCAI 2010 WORKSHOP ON COMPUTATIONAL DIFFUSION MRI

September 24th 2010, Beijing, China



### CALL FOR PAPERS

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Over the last decade interest in diffusion MRI has exploded. The technique provides a unique insight into the microstructure of living tissue and enables in-vivo connectivity mapping of the brain. Microstructural changes are often the earliest signs of disease or tissue regeneration, as well as being manifestation of physiological processes in normal tissue functioning. Tractography and connectivity mapping give fundamental new insights in neuroscience and neuroanatomy. The variety of clinical applications is expanding rapidly and includes detection of lesions and damaged tissue, prognosis of functional impairment and neurosurgical planning.

Computational techniques are key to the continued success and development of diffusion MRI and to its widespread transfer into the clinic. New processing methods are essential for addressing issues at each stage of the diffusion MRI pipeline: acquisition, reconstruction, modeling and model fitting, image processing, fiber tracking, connectivity mapping, visualization, group studies and inference. The workshop will give a snapshot of the current state of the art.

### WORKSHOP TOPICS

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Full-length papers are invited in (but not limited to) the following areas:

- Acquisition protocol design
- High angular resolution and general q-space sampling techniques
- Biophysical models
- Numerical simulation of diffusion process
- Tissue microstructure imaging
- Tractography and connectivity mapping
- Network analysis
- Registration, segmentation, and classification
- Visualization
- Validation
- Post-processing
- Group studies and statistical analysis
- Clinical applications

Papers accepted at the main conference may not be double-submitted to CDMRI'10.

### ORGANIZERS

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### IMPORTANT DATES

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#### June 10th, 2010 (EXTENDED):

Paper submission

#### August 1st, 2010:

Notification of acceptance

#### August 18th, 2010:

Camera-Ready Papers

#### September 24th, 2010:

Workshop

### PROGRAM

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#### Paper Presentations:

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

### WEBSITE

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<http://cmic.cs.ucl.ac.uk/cdmri10>