

**Subject:** [ISMRM]MICCAI workshop on „Diffusion Modelling and the Fibre Cup"

**Date:** Monday, July 6, 2009 5:12 AM

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**To:** Diffusion & Perfusion Study Group <diffusion\_perfusion@ismrm.org>

"For instructions on how to use this list, please go to <http://www.ismrm.org/aboutlists.htm>

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Dear Colleagues,

Please see below the MICCAI workshop on Diffusion Modelling and the Fibre Cup . Go to <http://www.miccai2009.org> <<http://www.miccai2009.org/>> to register before\* 1st August, 2009.\*

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Workshop on "Diffusion Modelling and the Fibre Cup".

MICCAI 2009, London, UK ( <http://www.cs.ucl.ac.uk/miccai/dmfc/index.html> )

9:00-17.00, Thursday 24th September

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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. Tractography and connectivity mapping give fundamental new insights in neuroscience and neuroanatomy.

This workshop is a two-part workshop:

**PART1 Diffusion Modelling:** This workshop will focus on the challenges at all stages of the diffusion MRI pipeline: acquisition, reconstruction, modelling and model fitting, image processing, fibre tracking, connectivity mapping, visualization, group studies and inference.

**PART2 The Fibre Cup:** The Fibre Cup targets the evaluation of reconstruction models and tractography algorithms in diffusion MRI. Participants to the contest will be asked to run their algorithms on the phantom dataset and return their results along with a 2-page paper summarizing the method and winners of the contest will be announced during the workshop.