

# Preface

The 2014 MICCAI Workshop on Computational Diffusion MRI (CDMRI) was held on September 18 in Boston, MA, USA, under the auspices of the 17th International Conference on Medical Image Computing and Computer Assisted Intervention, MICCAI 2014. The sixth event in a successful series, CDMRI'14 followed the exciting and well-attended workshops in 2008, 2010, 2011, 2012, and 2013.

The 18 original research papers collected in this proceedings volume clearly demonstrate that the field remains as vibrant and diverse as ever. From fundamental theoretical work on mathematical diffusion modeling to the development of robust algorithms for tractography and connectivity mapping, diffusion MRI continues to provide mathematical and computational challenges. We are confident that the computational research presented at the CDMRI workshop will continue to provide a unique insight into the microstructure of living tissue, enable in vivo connectivity mapping of the brain, give fundamental new insights in neuroscience and neuroanatomy, and support a widespread transfer of diffusion MRI into the clinic.

We would like to express our gratitude to the members of the Program Committee for ensuring the quality of the presented work and to Carl-Fredrik Westin for serving as keynote speaker. It has been our distinct pleasure to welcome participants to CDMRI 2014 and to provide this record of the exciting work represented at the workshop.

London, UK  
Boston, MA, USA  
Boston, MA, USA  
Freiburg, Germany  
London, UK  
September 2014

Gemma Nedjati-Gilani  
Lauren J. O'Donnell  
Yogeshathi  
Marco Reisert  
Torben Schneider

Computational Diffusion MRI

MICCAI Workshop, Boston, MA, USA, September 2014

O'Donnell, L.; Nadjati-Gilani, G.; Rathi, Y.; Reisert, M.;

Schneider, T. (Eds.)

2014, IX, 219 p. 63 illus., 51 illus. in color., Hardcover

ISBN: 978-3-319-11181-0