Advanced Methods of ***Magnetic Resonance Image Reconstruction***

July 17, 2003
McMaster University

9h00 Spatial and Temporal Undersampled Magnetic Resonance Imaging Using Radial Acquisition Techniques
Walter F. Block, Biodmedical Engineering and Medical Physics, University of Wisconsin

9h45 Superresolution from coplanar Image Sequences in MRI: Preliminary Results
Benoit Desjardins, Radiology, University of Michigan

10h30 Susceptibility Weighted Imaging: Creating New Contrast Mechanisms Using Complex Images
E. Mark Haacke, Radiology, Wayne State University

11h15 Discussion and Lunch

12h30 Time-Varying Sampling Functions to Improve Dynamic Magnetic Resonance Imaging
Bruno Madore, Radiology, Brigham and Women's Hospital, Harvard Medical School

13h15 Overview and Recent Advances in SENSE Imaging
Klaas Prüssmann, Institute for Biomedical Engineering, ETH and University Zürich

14h00 Designing Optimal Resampling Kernels for Spiral Reconstruction Using Nonlinear Programming
Christopher Anand, Computing and Software, McMaster University

14h45 Discussion and Closing

http://www.cas.mcmaster.ca/~anand/mwmrir/index.html