Tuesday, May 22

**MS73**

### Contributed Session 6

2:00 PM-3:40 PM

**Room:** Minuet - 4th Floor  
**Chair:** Cheng Guan Koay, University of Wisconsin, Madison, USA

**2:00-2:15** Optimal Acquisition Design for Diffusion MRI: A Case of Searching for a Needle in the Universe  
Cheng Guan Koay, University of Wisconsin, Madison, USA; Evren Özarslan, National Institutes of Health, USA; M. Elizabeth Meyerand, University of Wisconsin, Madison, USA

**2:20-2:35** Simultaneous Image Reconstruction and Sensitivity Map Estimation in Partially Parallel MR Imaging  
Meng Liu and Yuyuan Ouyang, University of Florida, USA; Xiaojing Ye, Georgia Institute of Technology, USA; Yunmei Chen, University of Florida, USA; Feng Huang, Invivo Corporation, USA

**2:40-2:55** Precision Limits for Source Parameter Estimation in Slitless Spectrometry  
Figen S. Oktem and Farzad Kamalabadi, University of Illinois at Urbana-Champaign, USA; Joseph M. Davila, NASA Goddard Space Flight Center, USA

**3:00-3:15** Sparse Reconstruction Applied to Tomographic SAR Inversion  
Xiao Xiang Zhu, Technische Universitaet Muenchen, Germany; Richard Bamler, German Aerospace Center, Oberpfaffenhofen, Germany

**3:20-3:35** Bandwidth-Efficient Remote Visualization on Mobile Devices  
Sebastian Ritterbusch, Vincent Heuveline, Roman Reiner, and Andreas Helfrich-Schkarbanenko, Karlsruhe Institute of Technology, Germany

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Tuesday, May 22

**CP6**

### Contributed Session 6

2:00 PM-3:40 PM

**Room:** Rhapsody - 4th Floor  
**Chair:** Julianne Chung, University of Texas at Arlington, USA

**2:00-2:15** A Variational Infinite Perimeter Model for Image Selective Segmentation  
Lavdie Rada and Ke Chen, University of Liverpool, United Kingdom

**2:20-2:35** A Robust Approach to Detect Faces from Still Images  
Qinghan Xiao, Defence R&D Canada, Canada; Patrick Laytner and Chrisford Ling, University of Waterloo, Canada

**2:40-2:55** An Optimal Approach for Image Deblurring and Denoising with Data Acquisition Errors  
Julianne Chung, University of Texas at Arlington, USA; Matthias Chung, Texas State University, USA; Dianne P. O’Leary, University of Maryland, College Park, USA

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Tuesday, May 22

**MS73**

### Contributed Session 6

2:00 PM-4:00 PM

**3:00-3:25** A New Paradigm for Fast MRI Reconstruction with TV Regularization from Arbitrary Trajectories through K-Space  
Wolfgang Stefan, University of Texas M. D. Anderson Cancer Center, USA; Ken-Pin Hwang, GE Healthcare, USA; R. Jason Stafford and John D Hazle, University of Texas M. D. Anderson Cancer Center, USA

**3:30-3:55** Edge-Preserving Full-Waveform Inversion with a Modified Total-Variation Regularization Scheme  
Youzuo Lin, Lianjie Huang, and Zhigang Zhang, Los Alamos National Laboratory, USA

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Tuesday, May 22

**CP7**

### Contributed Session 7

2:00 PM-3:40 PM

**Room:** Rhapsody - 4th Floor  
**Chair:** Julianne Chung, University of Texas at Arlington, USA

**2:00-2:15** A Variational Infinite Perimeter Model for Image Selective Segmentation  
Lavdie Rada and Ke Chen, University of Liverpool, United Kingdom

**2:20-2:35** A Robust Approach to Detect Faces from Still Images  
Qinghan Xiao, Defence R&D Canada, Canada; Patrick Laytner and Chrisford Ling, University of Waterloo, Canada

**2:40-2:55** An Optimal Approach for Image Deblurring and Denoising with Data Acquisition Errors  
Julianne Chung, University of Texas at Arlington, USA; Matthias Chung, Texas State University, USA; Dianne P. O’Leary, University of Maryland, College Park, USA

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**3:00-3:15** Image Segmentation and Inpainting Techniques for Reconstruction of Incomplete Cell Paths  
Justin Wan, University of Waterloo, Canada

**3:20-3:35** Pde Transforms and Non-Smooth Data: Singularity Detection, Segmentation and Denoising  
Rishu Saxena, Arizona State University, USA; Siyang Yang, Michigan State University, USA