

Tuesday, May 22

**MS73****Splitting-Based L1 Minimization with Applications in Medical Imaging, Electrochemical Impedance Spectroscopy, and Seismic Imaging**

2:00 PM-4:00 PM

continued

**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

Tuesday, May 22

**CP6****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 Özarlan, 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 Universität München, 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

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

**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