INVERSE PROBLEMS WORKSHOP
Thursday, May 3 & Friday, May 4 at Davis Auditorium

Thursday, May 3, 2007

8:50-9:10 AM	Guillaume Bal *Opening remarks*
9:10-9:40 AM	Andreas Hielscher *Optical tomography: potential and limits of an emerging biomedical imaging modality*
9:50-10:20 AM	Timothy Hall *Tropical cyclone landfall in a changing climate: a statistical modeling study*
10:20-10:50 AM	Coffee break
10:50-11:20 AM	I. Cevdet Noyan *The double inverse problem: Strain determination with diffraction in polycrystalline materials*
11:30 AM-12:00 PM	Allen Boozer *Design of magnetic fields for fusion plasmas*
12:00-13:30 PM	Lunch in the Davis Auditorium Lobby
13:30-14:00 PM	Donald Goldfarb *Optimization methods for Total-Variation-based image restoration*
14:10-14:40 PM	Rama Cont *Monte-Carlo methods for nonlinear inverse problems*
14:40-15:00 PM	Coffee break
15:00-15:30	Andrew Laine *Challenges in bio-imaging: Opportunities for image analysts*
15:40-16:10 PM	Alexey Kaplan *Utility of state-space reduction in ocean and climate inverse problems*
16:20-16:50 PM	Ravi Ramamoorthi *Spherical (de)convolution for inverse rendering*
17:00-17:30 PM	Jens Vogelgesang *A forward-backward diffusion model for geomorphological generalization*

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8:50-9:20 AM	Chris Wiggins *Inverse problems and imaging for systems biology*
9:30-10:00 AM	Fred Chang *Dynamic assembly of cells: rings, filaments and tubules*
10:10-10:40 AM	Ruben L. Gonzalez *Single-molecule enzymology of complex biochemical reactions*
10:50-11:20 AM	Rafa Yuste *Reverse engineering the cortical microcircuit*
11:20-11:50 AM	Coffee break
11:50 AM-12:20 PM	Alexander Klose *Fluorescence and bioluminescence tomography for molecular imaging*
12:30-13:00 PM	Elisa E. Konofagou *Ultrasound-based elasticity imaging*
13:00-14:30 PM	Lunch in the APAM Department, Room 200 S.W. Mudd Building