

## Cyber-Enabled Discovery and Innovation: Knowledge Extraction

**Monday October 29, 2007**

- 8:00–8:45 *Check-In/Light Breakfast (Hosted by IPAM)*
- 8:45–9:00 *<b>Welcome:</b> Mark Green, IPAM Director*
- 9:00–9:30 **Cecilia Clementi** (Rice University)  
*Success Story*
- 9:30–10:15 *<b>Panel:</b> Numerical Methods for Fast Knowledge Extraction<br><a href="publications/cdi2007/bottou.pdf">Leon Bottou (NEC Research Institute)</a><br><a href="publications/cdi2007/drineas.ppt">Petros Drineas (Rensselaer Polytechnic Institute)</a><br>Vladimir Rokhlin (Yale University)<br><a href="publications/cdi2007/wainwright.pdf">Martin Wainwright (UC Berkeley)</a><br>Wotao Yin (Rice University)*
- 10:15–10:45 *Break*
- 10:45–11:15 **Felix Herrmann** (University of British Columbia)  
*Seismology meets Compressive sampling*
- 11:15–12:00 *<b>Panel:</b> Nonlinear Methods for Dimensionality Reduction<br><a href="publications/cdi2007/gilbert.pdf">Anna Gilbert (University of Michigan)</a><br>Peter Jones (Yale University)<br>Yann LeCun (New York University )<br>Mauro Maggioni (Duke University)<br><a href="publications/cdi2007/walden.pdf">Johan Walden (UC Berkeley)</a>*
- 12:00–1:00 *Lunch at IPAM*
- 1:00–1:30 **Tom Russell** (National Science Foundation)  
*Q&A with NSF Representatives*
- 1:30–2:00 **Ed Hackett** (National Science Foundation)  
*Q&A with NSF Representatives*
- 2:00–2:30 **Amit Singer** (Yale University)  
*Cryo-electron microscopy and data organization through eigenvectors of sparse operators*
- 2:30–3:15 *<b>Panel:</b> Knowledge Extraction from Images and Problems of Visualization<br>Leonidas Guibas (Stanford University)<br>Stanley Osher (IPAM)<br><a href="publications/cdi2007/vese.ppt">Luminita Vese (UCLA)</a><br>Song Chun Zhu (UCLA)*
- 3:15–3:45 *Break*
- 3:45–4:30 *<b>Panel:</b> Discrete and Graph-Based Techniques<br><a href="publications/cdi2007/darbon.pdf">Jerome Darbon (UCLA)</a><br><a href="publications/cdi2007/eliassi.pdf">Tina Eliassi-Rad (Lawrence Livermore National Laboratory)</a><br>James Lake (UCLA)<br>Karin Verspoor (Los Alamos National Laboratory)*
- 4:30–6:00 *Reception (Location: IPAM Lobby)*



IPAM strives to provide an inclusive environment free of harassment. IPAM does not tolerate sexual harassment, other forms of harassment, or sexual assault. Please familiarize yourself with our community agreement which includes instructions on reporting incidents by using the QR code to the right.

