

## Discovery Informatics: The Role of AI Research in Innovating Scientific Processes

AAAI Fall Symposium, November 2-4, 2012, Arlington, VA

<http://www.discoveryinformaticsinitiative.org/dis2012>

### Friday, November 2

- 9:00 am - 10:30 am **Plenary Session: Discovery Informatics: Why Now**  
 10:30 am - 11:00 am *Coffee Break*  
 11:00 am - 12:00 pm **Invited presentation: Larry Hunter, University of Colorado on knowledge-based extraction from text**  
 11:00 am - 12:00 pm **Paper: Taha Bahadori and Yan Liu, "On Causality Inference in Time Series"**  
 12:30 pm - 2:00 pm *Lunch*  
 2:00 pm - 3:00 pm **Invited presentation: Hod Lipson, Cornell University on automating science: from experiments to models**  
 3:00 pm - 3:30 pm **Paper: Susan Epstein, Xingjian Li, Peter Valdez, Sofia Grayevsky, Eric Osisek, Xi Yun and Lei Xie, "Discovering Protein Clusters"**  
 3:30 pm - 4:00 pm *Coffee Break*  
 4:00 pm - 5:30 pm **Invited Panel: Challenges in Big Data: Discoveries at the Fringe of Science**  
**Panelists: Lise Getoor, University of Maryland; Haym Hirsh, Rutgers University; Vasant Honavar, NSF; Steven Salzberg, Johns Hopkins University.**  
 6:00 pm - 7:00 pm *AAAI Reception for all symposia*

### Saturday, November 3

- 9:00 am - 10:00 am **Invited presentation: Chris Lintott, University of Oxford on the Zooniverse citizen science projects**  
 10:00 am - 13:00 am **Paper: Pat Langley and Glen Hunt, "A Web-Based Environment for Explanatory Biological Modeling"**  
 10:30 am - 11:00 am *Coffee Break*  
 11:00 am - 12:00 pm **Invited presentation: Jude Shavlik, University of Wisconsin Madison on discoveries through human-guided large-scale machine learning**  
 12:00 pm - 12:30 pm **Paper: Nicholas Del Rio and Paulo Pinheiro Da Silva, "Capturing and Using Knowledge about the Use of Visualization Toolkits Mohammad"**  
 12:30 pm - 2:00 pm *Lunch*  
 2:00 pm - 3:30 pm **Invited Panel: Discovery Informatics: Innovating Science Practice one Scientist at a Time**  
**Panelists: Melissa Cragin, AAAS Science and Technology Fellow; Christopher Erdmann, The John G. Wolbach Library Harvard-Smithsonian Center for Astrophysics; Yolanda Gil, University of Southern California; Barbara Ransom, NSF.**  
 3:30 pm - 4:00 pm *Coffee Break*  
 4:00 pm - 5:00 pm **Invited presentation: Tim Clark, Harvard University on annotating scientific articles**  
 5:00 pm - 5:30 pm **Paper: Leonardo Salayandia, Ann Gates, Paulo Pinheiro, "An Evaluation Approach for Interactions between Abstract Workflows and Provenance Traces"**  
 6:00 pm - 7:30 pm *Plenary Session for all AAAI Fall Symposia*

### Sunday, November 4

- 9:00 am - 10:00 am **Invited presentation: William Cohen, Carnegie Mellon University on extracting biological knowledge from text**  
 10:00 am - 10:30 am **Paper: Marcelo Tallis, Drashti Dave and Gully Burns, "Preliminary meta analyses of experimental design with examples from HIV vaccine protection studies"**  
 10:30 am - 11:00 am *Coffee Break*  
 11:00 am - 11:30 am **Paper: Arman Masoumi and Mikhail Soutchanski, "Organic Synthesis Planning Using the Situation Calculus"**  
 11:30 am - 12:30 pm **Plenary Session: General discussion and wrap-up**