

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	<i>Coffee Break</i>
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	<i>Lunch</i>
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	<i>Coffee Break</i>
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	<i>AAAI Reception for all symposia</i>

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	<i>Coffee Break</i>
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	<i>Lunch</i>
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	<i>Coffee Break</i>
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	<i>Plenary Session for all AAAI Fall Symposia</i>

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	<i>Coffee Break</i>
11:00 am - 11:30am	Paper: Arman Masoumi and Mikhail Soutchanski, "Organic Synthesis Planning Using the Situation Calculus"
11:30am - 12:30 pm	Plenary Session: General discussion and wrap-up