

IAAI 2011

23rd Conference on the Innovative Applications of AI

Daniel Shapiro (ISLE) – Chair

Markus Fromherz (ACS/Xerox) – Co-chair

IAAI Mission

- Focus on successful applications of AI technology
 - Issues, Methods and Lessons learned when deploying AI in the real world
- Promote the interchange of ideas between basic and applied AI
- Two tracks:
 - Deployed Applications (5)
 - Employed by their final end users for sufficiently long that experience can be reported
 - Emerging Applications (14)
 - Ongoing efforts

Evaluating IAAI Talks

- What AI applications are feasible now?
- What applications are almost feasible? Why or why not?
- How could this technology be employed in my setting?
- Are the problems I work on ready for application?
- What applications surprised you?

Paper Requirements

The goal is to describe the engineering of AI applications

■ Task Description

- Including why AI was important

■ Application Description

- Describe the system components and deployment environment.

■ Uses of AI Technology

- What key aspects of AI technology allowed the application to succeed? How were the techniques modified? What AI approaches did not work?

■ Application Use/Payoff

- What impacts has it had on the users' business processes?

■ Application Development and Deployment

- What were the difficulties and surprises? What lessons did you learn?

■ Maintenance

- What has changed since original deployment? How has the application design changed to accommodate new needs?

Invited Talks

- David Ferrucci (IBM T. J. Watson Research Center)
Building Watson: An Overview of DeepQA for the Jeopardy! Challenge
Tuesday 10:20-11:20, Joint with AAI
- Ramon Lopez De Mantaras (Artificial Intelligence Research Institute (IIA) and Spanish National Research Council (CSIC))
Playing with Cases: Rendering Expressive Music Performance with Case-Based Reasoning
Wednesday 10:20-11:20
- David Gunning (Vulcan Inc.)
HaloBook and Progress Towards Digital Aristotle
Thursday 10:20-11:20

Deployed Applications

- **NewsFinder: Automating an Artificial Intelligence News Service**
Liang Dong, Reid G. Smith, Bruce Buchanan
Tuesday 11:30-12:00
- **The News that Matters to You Design and Deployment of a Personalized News Service**
Mark J. Stefik, Lance Good
Tuesday 12:00-12:30
- **Learning by Demonstration Technology for Military Planning and Decision Making: A Deployment Story**
Karen Myers, Jake Kolojejchick, Carl Angiolillo, Tim Cummings, Tom Garvey, Melinda Gervasio, Will Haines, Chris Jones, Janette Knittel, David Morley, William Ommert, Scott Potter
Tuesday 2:20-2:50

Deployed Applications

- Machine Learning and Sensor Fusion for Estimating Continuous Energy Expenditure

Nisarg Vyas, Jonathan Farrington, David Andre and John (Ivo) Stivoric
Wednesday 9:00-9:30

- The Glass Infrastructure: Using Common Sense to Create a Dynamic, Place-Based Social Information System

Catherine Havasi, Richard Borovoy, Boris Kizelshteyn, Polychronis Ypodimatopoulos, Jon Ferguson, Henry Holtzman, Andrew Lippman, Dan Schultz, Matthew Blackshaw, Greg Elliott, Chaki Ng

Thursday 11:30-12:00 NOTE TIME CHANGE