

IAAI-12

24th Conference on Innovative Applications of Artificial Intelligence



Markus Fromherz (Xerox) - Chair

Hector Munoz-Avila (Lehigh University) - Co-chair

Welcome to IAAI-12!

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 (8)
 - Employed by their final end users for sufficiently long that experience can be reported
- Emerging Applications (15)
 - Ongoing efforts on real or representative data

Paper Requirements

The goal is to describe the engineering of AI applications

- Task description
 - Including why AI was important
- Application description
 - System components and deployment environment
- Uses of AI technology
 - Key aspects of AI technology that allowed the application to succeed
 - Modifications of techniques and AI approaches that didn't work
- Application use/payoff
 - Impacts on the users' business processes
- Application development and deployment
 - Difficulties and surprises, lessons learned
- Maintenance
 - Changes since the original deployment
 - Changes in the application design to accommodate new needs

Invited Talks

Judea Pearl (University of California, Los Angeles)

ACM A. M. Turing Award Lecture

- *The Mechanization of Causal Inference:
A “Mini Turing Test” and Beyond*

Tuesday, July 24, 10:20am; joint with AAAI, also open to ACM members

Sebastian Thrun (Stanford University/Google)

- *Recent Progress on Self-Driving Cars*

Thursday, July 26, 10:20am

Invited Talks

Robert S. Engelmores Award Lecture

Steven Minton (InferLink Corporation)

- *Building AI: Our Shared Enterprise*

Wednesday, July 25, 10:20am

Deployed Applications

Advisor Agent Support for Issue Tracking in Medical Device Development

Touby Drew, Maria Gini

A Real-Time Decision Support System for High Cost Oil-Well Drilling Operations

Odd Erik Gundersen, Frode Sørmo, Agnar Aamodt, Pål Skalle

Statistical Anomaly Detection for Train Fleets

Anders Holst, Markus Bohlin, Jan Ekman, Ola Sellin, Björn Lindström, Stefan Larsen

Transcription System Using Automatic Speech Recognition for the Japanese Parliament (Diet)

Tatsuya Kawahara

eBird: A Human/Computer Learning Network for Biodiversity Conservation and Research

Steve Kelling, Jeff Gerbracht, Daniel Fink, Carl Lagoze, Weng-Keen Wong, Jun Yu, Theodoros Damoulas, Carla Gomes

Using AI Local Search to Improve an OR Optimizer

F. Morgado, R. L. Saldanha, J. Roussado, L. Albino, E. Morgado, J. P. Martins

Applying Automated Language Translation at a Global Enterprise Level

Nestor Rychtyckyj, Craig Plesco

Mechanix: A Sketch-Based Tutoring System for Statics Courses

Stephanie Valentine, Francisco Vides, George Lucchese, David Turner, Hong-hoe Kim, Wenzhe Li, Julie Linse, Tracy Hammond

AI Magazine Special Issue on IAAI-12

Will include:

- Eight papers from IAAI-12
- IAAI-11 Engelmore Lecture

to come out later this year

prepared with David Leake, Editor-in-Chief



Enjoy the Conference!