

CogRob2002
The Third International Cognitive Robotics Workshop
(AAAI 2002 Workshop WS7)
July 28, 2002, Edmonton, Alberta, Canada

Preliminary Schedule

- 9:00 – 9:10 Workshop Introduction
- 9:10 – 10:10 **Session: Situation Calculus Does it All!(!?)**
Chair: Gerhard Lakemeyer
Invited Speaker: Raymond Reiter, University of Toronto
Stochastic Actions, Probabilities, and Markov Decision Processes in the Situation Calculus
- 10:10 – 10:40 Interfacing IndiGolog and OAA – A Toolkit for Advanced Multiagent Applications.
A. Lapouchnian and Y. Lesperance.
- 10:40 – 11:00 *Coffee Break*
- 11:00 – 12:00 **Session: Programming and Controlling Cognitive Robots**
Chair: Michael Thielscher
Pushing the Envelope: Programming Reasoning Agents.
M. Thielscher.
Programming the Deliberation Cycle of Cognitive Robots.
M. Dastani, F. De Boet, F. Dignum, W. van der Hoek, M. Kroese, J.J. Meyer.
High-Level Robot Behavior Control Using POMDPs.
J. Pineau and S. Thrun.
- 12:00 – 1:30 *Lunch*
- 1:30 – 2:45 **Session: Object Recognition**
Chair: Fiora Pirri
A Situation-Bayes View of Object Recognition Based on Symgeons.
F. Pirri and M. Romano.
Identifying Perceptually Indistinguishable Objects: Is That the Same One You Saw Before?
J. Santore and S. Shapiro.
From Regions to Transitions, From Transitions to Objects
P. Santos and M. Shanahan.
- 2:45 – 3:35 **Session: Diagnosis and Explaining Observations**
Chair: Sheila McIlraith
Diagnostics with Answer Sets: Dealing with Unobservable Fluents.
M. Gelfond and R. Watson.
What Observations Really Tell Us.
G. Iwan and G. Lakemeyer.
- 3:35 – 4:00 *Coffee Break*
- 4:00 – 4:30 **Session: Challenge Problems in Cognitive Robotics**
Chair: Chitta Baral
Adventure Games: *E. Amir and P. Doyle.*
Soccer: *F. Dylla, A. Ferrein and G. Lakemeyer.*
- 4:30 – 6:00 **Poster Presentations of Accepted Papers**

Poster Presentations of Accepted Papers

Planning with Non-deterministic Actions and Sensing.
E. Amir.

Adventure Games: A Challenge for Cognitive Robotics.
E. Amir and P. Doyle.

Supporting Self-Explanation on Behavior Based Robots.
C. Le Dac

Programming the Deliberation Cycle of Cognitive Robots.
M. Dastani, F. De Boet, F. Dignum, W. van der Hoek, M. Kroese, J.J. Meyer.

Acting and Deliberating using Golog in Robotic Soccer -- a Hybrid Architecture.
F. Dylla, A. Ferrein and G. Lakemeyer.

Generation and Execution of Partially Correct Plans in Dynamic Environments.
A. Farinelli, G. Grisetti, L. Iocchi, D. Nardi, and R. Rosati.

Diagnostics with Answer Sets: Dealing with Unobservable Fluents.
M. Gelfond and R. Watson.

What Observations Really Tell Us.
G. Iwan and G. Lakemeyer.

Non-Verbal Eliza-like Human Behaviors in Human-Robot Interaction through Real-Time Auditory and Visual Multiple-Talker Tracking.
H.G. Okuno, K. Nakadai and H. Kitano

Interfacing IndiGolog and OAA - A Toolkit for Advanced Multiagent Applications.
A. Lapouchnian and Y. Lesperance.

High-Level Robot Programs Based on Abductive Event Calculus
Leliane Nunes de Barros and Silvio do Lago Pereira

Preliminary Insights on Temporal Approximation.
A. Parmar.

High-Level Robot Behavior Control Using POMDPs.
J. Pineau and S. Thrun.

A Situation-Bayes View of Object Recognition Based on Symgeons.
F. Pirri and M. Romano.

Identifying Perceptually Indistinguishable Objects: Is That the Same One You Saw Before?
J. Santore and S. Shapiro.

From Regions to Transitions, From Transitions to Objects
P. Santos and M. Shanahan.

Pushing the Envelope: Programming Reasoning Agents.
M. Thielscher.

Hybrid Cognitive/Reactive Architectures for Robot Autonomy
J.G. Trafton, A.C. Schultz, W. Adams, D. Brock, M. Bugajska, M. Abramson