

Cognitive Robotics at Dagstuhl, Feb. 22–26, 2010

Schedule (Tentative)

Monday, February 22

08:45 Introduction

Tutorials (all day):

09:00–10:00 Gerhard Lakemeyer, Action Languages

10:00–10:15 Coffee Break

10:15–11:15 Laurent Itti, Cognitive Neuroscience

11:15–12:15 Brian Williams, Planning

12:15–14:00 Lunch

14:00–15:00 Eyal Amir, Probabilistic Reasoning

15:00–16:00 Jim Little, Computer Vision

16:00–16:30 Coffee Break

16:30–17:30 Geert-Jan Kruijff, Interaction

Tuesday, February 23

09:00–10:30

Tony Cohn, Learning functional object categories and event classes from video

Sven Wachsmuth, Acquiring scene models through human-robot interaction

Anna Belardinelli, Computational models of visual attention: moving to motion

10:30–10:45 Coffee Break

10:45–12:15

Yves Lesperance, Plan and intention recognition in an agent programming framework

Leora Morgenstern, Joint planning

Bernhard Nebel, Try to come up with a good excuse why you could not find a plan! (Some guidelines for incompetent robots)

12:15–14:00 Lunch

14:00–15:30

Yongmei Liu, On first-order definability and computability of progression for local-effect actions and beyond

Alexander Ferrein, golog.lua: Towards a non-prolog implementation of golog for embedded systems

Sven Behnke, Challenges for domestic service robots

15:30–16:00 Coffee Break

16:00–18:00

Andrew Calway, Robust and Efficient Visual SLAM for Spatial Cognition

Lucas Paletta, Semantic mapping of visual attention in urban environments

Vasek Hlavac, Detecting human activities in video and still images

Jim Little, Context and place categorization for assistive robotics

18:00 Dinner

Wednesday, February 24

09:00–10:30

Malik Ghallab, Modeling the observed behavior of a robot through machine learning
Claude Sammut, Combining qualitative modelling and trial-and-error learning
for skill acquisition

Alberto Finzi, Attentive execution monitoring and adaptive control in cognitive robotics

10:30–10:45 Coffee Break

10:45–12:15

Panel

12:15–13:30 Lunch

Excursion

18:00 Dinner

Thursday, February 25

09:00–10:30

Discussion Groups

10:30–10:45 Coffee Break

10:45–12:15

Discussion Groups and Plenary Session

12:15–14:00 Lunch

14:00–15:30

Eyal Amir, Combining planning and motion planning

Sven Koenig, Fast replanning in robotics

Christian Freksa, Qualitative spatial representations for intelligent agents:
A cognitive approach

15:30–16:00 Coffee Break

16:00–17:30

Greg Trafton, Cognitive robotics and cognitive plausibility

Stuart Shapiro, The GLAIR architecture for cognitive robots

Patrick Doherty, Developing a pragmatic delegation framework for robotic systems

18:00 Dinner

Friday, February 26

09:00–10:30

Fredrik Heintz, Middleware for Stream-based Reasoning in Robotic Systems

Stefan Schiffer, Towards integrated self-maintenance in domestic mobile robots

Matteo Leonetti, Robot learning: obtaining best accuracy with a limited
number of experiments

10:30–10:45 Coffee Break

10:45–12:15

Final Discussions

12:15–14:00 Lunch and Farewell