

Preliminary Schedule
Workshop on Analytical Challenges in Reinforcement Learning
MPI Tübingen
July 30 – August 3, 2007

Organizers: Peter Auer, Jan Peters

July 24, 2007

Participants

Peter Auer, Marc Deisenroth, Thomas Jaksch, Shie Mannor, Francisco Melo, Remi Munos, Gerhard Neumann, Ronald Ortner, Jan Peters, Bernhard Schölkopf

Lunch, coffee breaks, dinner

Lunch break 12:30–14:00

Lunch will be served in the MPI cafeteria.

Coffee breaks will be around 10:30 and 16:00.

Dinner will be outside MPI at local restaurants.

Monday, 30.7.2007

Time	Plan
9:30	Welcome and Introduction: Analysis of reinforcement learning Presentation and discussion of topics
14:00	Current research topics and background of participants Discussion

Tuesday 31.7.2007

Time	Plan
9:00	Tutorial: On-line regret analysis for reinforcement learning Discussion
14:00	What are the right parameters for describing the difficulty of a reinforcement learning problem?

Wednesday 1.8.2007

Time	Plan
9:00	Tutorial: Continuous state and action spaces in reinforcement learning Open problems and discussion
14:00	Analyzing some special cases (e.g. regions with linear dynamics, exploration in kernel spaces)

Thursday 2.8.2007

Time	Plan
9:00	Tutorial: "Autonomous rewards" in reinforcement learning Discussion
14:00	Modeling curiosity and predictability

Friday 3.8.2007

Time	Plan
9:00	Discussion of further topics
14:00	Wrap up