Knowledge Engineering for Planning and Scheduling (KEPS)

Organizers: Roman Barták, Simone Fratini, Lee McCluskey, Tiago Stegun Vaquero
Date and Location: June 12, 2011, Hall 101-00-036 Computer Science Campus

09:00–09:15	**Welcome**
	Oral Presentations
09:15–09:40	*A Brief Review of Tools and Methods for Knowledge Engineering for Planning & Scheduling* Tiago Stegun Vaquero, José Reinaldo Silva, J. Christopher Beck
09:40–10:05	*Acquisition and Re-use of Plan Evaluation Rationales on Post-Design* Tiago Stegun Vaquero, José Reinaldo Silva, J. Christopher Beck
10:05–10:30	*The Challenge of Grounding Planning in Simulation in an Interactive Model Development Environment* Bradley J. Clement, Jeremy D. Frank, John M. Chachere, Tristan B. Smith, Keith Swanson
	Coffee Break
	Oral Presentations
11:00–11:25	*Finding Mutual Exclusion Invariants in Temporal Planning Domains* Sara Bernardini, David E. Smith
11:25–11:50	*Using Planning Domain Features to Facilitate Knowledge Engineering* Gerhard Wickler
11:50–12:15	*Fluent Merging for Classical Planning Problems* Jendrik Seipp, Malte Helmert
12:15–12:40	*Heuristic Search-Based Planning for Graph Transformation Systems* H.-Christian Estler, Heike Wehrheim
	Lunch Break
14:00–15:30	**Panel Discussion — Proposal(s) for ICKEPS 2012**
	Coffee Break
16:00–17:30	**Poster and Demo Session**

KEPS Demos

An Interactive Tool for Plan Visualization, Inspection and Generation
Alfonso E. Gerevini, Alessandro Saetti

VisPlan – Interactive Visualisation and Verification of Plans
Radoslav Glinský, Roman Barták

An Extended HTN Knowledge Representation Based on a Graphical Notation
Francisco Palao, Juan Fdez-Olivares, Luis Castillo, Oscar García

KEPS Posters

Cooperated Integration Framework of Production Planning and Scheduling based on Order Life-cycle Management
Shigeru Fujimura

Relational Approach to Knowledge Engineering for POMDP-based Assistance Systems with Encoding of a Psychological Model
Marek Grzes, Jesse Hoey, Shehroz Khan, Alex Mihailidis,
Stephen Czarnuch, Dan Jackson, Andrew Monk

JPDL: A Fresh Approach to Planning Domain Modelling
Michael Jonas

Open-Ended Domain Model for Continual Forward Search HTN Planning
Dominik Off, Jianwei Zhang

Automatic Polytime Reductions of NP Problems into a Fragment of STRIPS
Aldo Porco, Alejandro Machado, Blai Bonet

Taking Advantage of Domain Knowledge in Optimal Hierarchical Deepening Search Planning
Pascal Schmidt, Florent Teichteil-Königsbuch, Patrick Fabiani

A Conceptual Framework for Post-Design Analysis in AI Planning Applications
Tiago Stegun Vaquero, José Reinaldo Silva, J. Christopher Beck