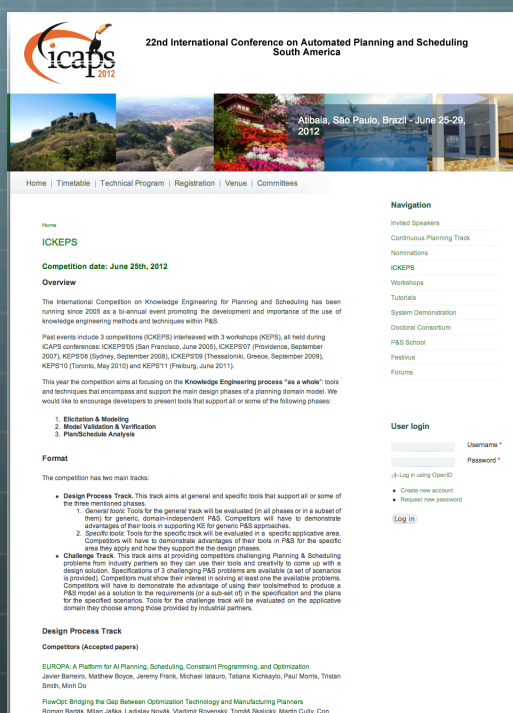


# Seminář z umělé inteligence II

## ICKEPS 2012 Challenge



**icaps 2012**  
22nd International Conference on Automated Planning and Scheduling  
South America

Atibaia, São Paulo, Brazil - June 25-29, 2012

Home | Timetable | Technical Program | Registration | Venue | Committees

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### ICKEPS

Competition date: June 25th, 2012

#### Overview

The International Competition on Knowledge Engineering for Planning and Scheduling has been running since 2005 as a bi-annual event promoting the development and importance of the use of knowledge engineering methods and techniques within P&S.

Past events include 3 competitions (ICKEPS) interfaced with 3 workshops (KEPS), all held during ICAPS conferences: ICKEPS05 (San Francisco, June 2005), ICKEPS07 (Providence, September 2007), ICKEPS08 (Sydney, September 2008), ICKEPS09 (Thessaloniki, Greece, September 2009), KEPS10 (Toronto, May 2010) and KEPS11 (Pisa, June 2011).

This year the competition aims at focusing on the Knowledge Engineering process "as a whole" tools and techniques that encompass and support the main design phases of a planning domain model. We would like to encourage developers to present tools that support all or some of the following phases:

1. Elicitation & Modeling
2. Model Validation & Verification
3. Planschedule Analysis

#### Format

The competition has two main tracks:

- **Design Process Track:** This track aims at general and specific tools that support all or some of the three mentioned phases.
  1. **General tools:** Tools for the general track will be evaluated (in all phases or in a subset of them) for generic, domain-independent P&S. Competitors will have to demonstrate advantages of their tools in supporting KE for generic P&S applications.
  2. **Specific tools:** Tools for the specific track will be evaluated in a specific applicative area. Competitors will have to demonstrate advantages of their tools in P&S for the specific area they apply and how they support the design phases.
- **Challenge Track:** This track aims at providing competitors challenging Planning & Scheduling problems from industry partners so they can use their tools and creativity to come up with a design solution. Specifications of 3 challenging P&S problems are available (a set of scenarios is provided). Competitors must show their interest in solving at least one of the available problems. Competitors will have to demonstrate the advantage of using their tool/method to produce a P&S model as a solution to the requirements (or a sub-set of) in the specification and the plans for the specified scenarios. Tools for the challenge track will be evaluated on the applicative domain they choose among those provided by industrial partners.

#### Design Process Track

Competitors (Accepted papers)

EUROPA: A Platform for AI Planning, Scheduling, Constraint Programming, and Optimization  
Javier Barreno, Matthew Boyco, Jeremy Frank, Michael Isard, Tatiana Kochkayeva, Paul Morris, Trestin Smith, Mehdi Do

FlowOpt: Bridging the Gap Between Optimization Technology and Manufacturing Planners  
Roman Burak, Milan Jasko, Ladislav Novak, Vladimíř Rovenský, Tomáš Šteklíček, Martin Cufly, Con

#### Navigation

- Invited Speakers
- Continuous Planning Track
- Nominations
- ICKEPS
- Workshops
- Tutorials
- System Demonstration
- Doctoral Consortium
- P&S School
- Festive
- Forums

#### User login

Username \*

Password \*

Log in using OpenID

Create new account

Request new password

Log in

Řešeno v loňském roce  
a v návazných diplomkách

Tři problémy

rozvrhování solárních panelů  
na ISS (SACE)

plánování aktivit Mars Express  
Orbiteru (MEX)

plánování dopravy zboží na  
ropné plošiny (Petrobras)

# ASP Competition 2013

## Model and Solve Track:

- Permutation Pattern Matching
- Valves Location Problem
- Connected Maximum-density Still Life
- Graceful Graphs
- Bottle Filling Problem
- Nomystery
- Sokoban
- Ricochet Robots
- Crossing Minimization
- Reachability
- Strategic Companies
- Solitaire
- Weighted-Sequence Problem
- Stable Marriage Search P Graph
- Incremental Scheduling

# MISTA 2013 Challenge

multi-mode resource-constrained multi-project scheduling problem

## MISTA 2013 Challenge



|                                |  |
|--------------------------------|--|
| <b>Home</b>                    | <b>Welcome to the MISTA 2013 challenge!</b>  |
| <b>Overview</b>                | <b>Introduction</b>  |
| <b>Dates</b>                   | In the context of the 8th Multidisciplinary International Scheduling Conference (MISTA 2013), the CODES research group of KAHO (Engineering Technology, KU Leuven) is organizing a challenge with the goal of stimulating research in scheduling. The challenge deals with the multi-mode resource-constrained multi-project scheduling problem (MRCMPSP) in which multiple projects have to be scheduled, while taking into account the availability of local and global resources.   |
| <b>Instances and evaluator</b> | For more information, please refer to <a href="#">the detailed description of the problem</a> .  |
| <b>Registration</b>            |  |
| <b>Submissions and ranking</b> | <b>Competition format</b>  |
| <b>Rules</b>                   | The competition is divided into two phases. In the qualification phase, teams can register and submit solutions for a first set of instances. In the second phase, the best teams from the qualification phase will be able to fine-tune their algorithm using a second set of instances. Some time before the start of the conference all finalists are required to submit their final algorithms which will then be evaluated by the organisers on a hidden dataset. The winners of the MISTA 2013 challenge will be announced at the MISTA conference to be held at Gent, Belgium (27-30 Aug 2013). |
| <b>Contact</b>                 | For more details, check <a href="#">the deadlines</a> and <a href="#">the competition rules</a> .  |
|                                | <b>Prizes</b>  |
|                                | The first, second and third finalist will be rewarded with 1500€, 750€ and 250€, respectively.   |
|                                | <b>News</b>  |
|                                | <b>21/01/2013 - New evaluator</b>  |
|                                | A new version of the evaluator has been <a href="#">uploaded</a> . Please make sure that you use this latest version.  |



MISTA 2013 | Contact

