# Wednesday, September 13

## 08:30 – 09:00  Registration

## 09:00 – 09:05  Workshop Opening - Radim Jiroušek

## 09:05 – 10:50  Inference I (General)
**Chair:** Linda C. van der Gaag

- **09:05** Dynamic Weighting A* Search-based MAP Algorithm for Bayesian Networks.
  *Xiaoxun Sun, Marek J. Druzdzel, and Changhe Yuan*

- **09:40** Dynamic importance sampling in Bayesian networks using factorisation of probability trees.
  *Irene Martínez, Carmelo Rodríguez, and Antonio Salmerón*

- **10:15** Optimal Design with Design Networks.
  *Yang Xiang*

## 10:50 – 11:20  Coffee Break

## 11:20 – 12:30  Inference II (Propagation)
**Chair:** José A. Gámez

- **11:20** Loopy Propagation: the Convergence Error in Markov Networks.
  *Janneke H. Bolt*

- **11:55** Hybrid Loopy Belief Propagation.
  *Changhe Yuan and Marek J. Druzdzel*

## 12:30 – 14:00  Lunch

## 14:00 – 16:00  Poster Session I: Decision-Making, Applications
**Chair:** Kristian G. Olesen

- Complexity Results for Enhanced Qualitative Probabilistic Networks.
  *Johan Kwisthout and Gerard Tel*

- Preprocessing the MAP Problem.
  *Janneke H. Bolt and Linda C. van der Gaag*

  *Jens D. Nielsen and Manfred Jaeger*

- Sensitivity analysis of extreme inaccuracies in Gaussian Bayesian Networks.
  *Miguel A. Gómez-Villegas, Paloma Main, and Rosario Susi*

- A Bayesian Network Framework for the Construction of Virtual Agents with Human-like Behaviour.
  *Olav Bangsø, Nicolaj Søndberg-Madsen, and Finn V. Jensen*

- Predictive Maintenance using Dynamic Probabilistic Networks.
  *Demet Özgür-Ünlüakin and Toner Bilgic*

- Literature Mining using Bayesian Networks.
  *Péter Antal and András Millinghoffer*

- Decision analysis with influence diagrams using Elvira’s explanation facilities.
  *Manuel Luque and Francisco J. Díez*

- Continuous Decision MTE Influence Diagrams.
  *Barry R. Cobb*

- Evaluating Causal effects using Chain Event Graphs.
  *Peter Thwaites and Jim Smith*

## 16:00 – 16:30  Coffee Break

## 16:30 – 18:15  Applications to Decision-Making
**Chair:** Antonio Salmerón

- **16:30** Selecting Strategies for Infinite-Horizon Dynamic LIMIDS.
  *Marcel A. J. van Gerven and Francisco J. Díez*

- **17:05** Diagnosing Lyme disease - Tailoring patient specific Bayesian networks for temporal reasoning.
  *Kristian G. Olesen, Ole K. Hejlesen, Ram Dessau, Ivan Beltoft, and Michael Trangeled*

- **17:40** Abstraction and Refinement for Solving Continuous Markov Decision Processes.
  *Alberto Reyes, Pablo Ibargüengoytia, L. Enrique Sucar, and Eduardo Morales*

## 19:30 – 22:00  Welcome Party

**Meeting at the registration desk.**

The Welcome Party takes part in Michnův Palác - a part of Tyršův dům - situated in the heart of the city’s Lesser Town (Malá Strana). The address of Michnův Palác is Újezd 40/450, Praha 1.