

Programme

Wednesday, Sept 12

19:30 - 22:00 **Welcome Party** (*Hotelová škola*)

Thursday, Sept 13

7:50 - 8:20 **Registration** (*Town Hall, 1st floor*)

8:20 - 8:30 **Introduction** (*Radim Jiroušek, Zdeněk Král*)

Conditional probability & fuzzy logic

(*Giulianella Coletti*)

8:30 - 9:10 **Romano Scozzafava**

Conditional probability: advantages and inconveniences of different approaches

9:10 - 9:40 **Christian Wallmann**, Gernot Kleiter

Beware of too much information

9:40 - 10:00 **Irina Perfilieva**

Duality in residuated structures

10:00 - 10:30 **Coffee Break**

Fuzzy logic & coherence

(*Romano Scozzafava*)

10:30 - 11:00 **Vilém Novák**

Fuzzy logic in broader sense: a useful tool for AI

11:00 - 11:40 **Andrea Capotorti**, Giulianella Coletti, Barbara Vantaggi

A dynamic conditional decision model

11:40 - 12:00 **Jiří Ivánek**

Affiliated ratio-implicational and equivalency data-mining quantifiers and their truth configurations

12:00 - 14:00 **Lunch** (*Univerzita Karlova*)

Bayesian networks & applications

(*Nihat Ay*)

14:00 - 14:30 **Barry R. Cobb, Prakash P. Shenoy**

Piecewise linear approximations of nonlinear deterministic conditionals in hybrid Bayesian networks

14:30 - 15:10 **Philipp Moritz**, Joerg Reichardt, Nihat Ay

A new common cause principle for Bayesian networks

15:10 - 15:30 **Jiří Vomlel**

Machine learning methods for mortality prediction in patients with ST elevation myocardial infarction

15:30 - 16:00 **Coffee Break**

Entropy & inference

(*Gernot Kleiter*)

16:00 - 16:40 **Guido F. Montúfar**, Johannes Rauh

Scaling of model approximation errors and expected entropy distances

16:40 - 17:10 **Martin Adamčík**, George Wilmers

The irrelevant information principle for collective probabilistic reasoning

17:10 - 17:30 **Otakar Kříž**

Mixing marginals for decision-making based on marginal problem

17:45 - 18:45 **Guided Tour** (*meeting point: Town Hall*)

19:30 - 22:00 **Dinner** (*Hotelová škola*)

Friday, Sept 14

Possibility & belief functions

(*Vilém Novák*)

8:20 - 9:00 **Masahiro Inuiguchi**

Function values of graded ill-known sets

9:00 - 9:30 Giulianella Coletti, Davide Petturiti, **Barbara Vantaggi**

A syntactical comparison between probabilistic and possibilistic likelihood

9:30 - 10:00 **Rajendra P. Srivastava**, Sunita S. Rao, Theodore J. Mock

Assurance services for sustainability reporting under Dempster-Shafer theory of belief functions

10:00 - 10:30 **Coffee Break**

Belief functions

(*Prakash P. Shenoy*)

10:30 - 11:10 **Jiřina Vejnarová**

On weakness of evidential networks

11:10 - 11:30 **Václav Kratochvíl**

An attempt to implement compositional models in Dempster-Shafer theory of evidence

11:30 - 12:00 **Milan Daniel**

Introduction to an algebra of belief functions on three-element frame of discernment - a general case

12:00 - 14:00 **Lunch** (*Univerzita Karlova*)

14:00 **Trip** followed by Conference Dinner (*meeting point: Town Hall; destination: Kynřvart castle, Kladská*)

Saturday, Sept 15

Algebraic statistics methods

(*Milan Studený*)

8:40 - 9:20 **David Haws**, Abraham Martín del Campo, Akimichi Takemura, **Ruriko Yoshida**

Markov degree of the three-state toric homogeneous Markov chain model

9:20 - 10:00 **Kentaro Tanaka**, Akimichi Takemura, Tomonari Sei

A new method for conditional independence inference

10:00 - 10:30 **Coffee Break**

Polytopes, polymatroids & application

(*Radim Jiroušek*)

10:30 - 11:10 **Jing Xi**, Ruriko Yoshida

The characteristic imset polytope for diagnosis models

11:10 - 11:40 **František Matuš**

Polymatroids and polyquantoids

11:40 - 12:00 **Vladislav Bína**, Jiří Přibíl

Preliminary steps in uninformed approach to the extraction of context in multilingual corpora

12:00 - 14:00 **Lunch** (*Univerzita Karlova*)

14:30 **Departure** of the bus to Prague (*Town Hall*)