

PhD Studentship

Topic: Collaboration and cooperation of intelligent agents

The department is working in the area of decision making (DM) under uncertainty, preferences elicitation, decentralised decision making, emotional DM; with many different applications, for more information see <http://www.utia.cz/AS>.

The department seeks a talented and ambitious PhD candidate for a challenging multidisciplinary research on theoretic foundations of collaboration and cooperation of intelligent agents in multi-agent decision making.

The project investigates theoretic foundations of cooperation/negotiation of intelligent agents in multi-agent decision making. The research considers design and elaboration of a robust and efficient cooperation support with possible applications in economic games.

The PhD candidate is expected to actively contribute to one of the following topics: Dynamic reconsidering DM goals; Elicitation of DM preferences; Merging of DM preferences.

Requirements: The successful candidate should have a strong mathematical background and hold an MSc or equivalent degree (or expect to obtain MSc very soon) in mathematics, computer science, or engineering. A basic knowledge of Bayesian statistics and probabilistic modelling is supposed. Knowledge of one or more of the following areas: multi-agent systems, artificial intelligence, computer science, automatic coordination and negotiation, simulation, modelling & control, control theory, optimization is an asset. Well spoken and written English and the ability to work in a team are mandatory.

The expected supervisors: Dr. Karny (school@utia.cas.cz), Dr. T.V.Guy (guy@ieee.org).

Informal enquiries should be addressed to Dr. T.Guy (guy@ieee.org).

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