



Call for papers

DECISION MAKING WITH MULTIPLE IMPERFECT DECISION MAKERS

a workshop in conjunction with

the 24th Annual Conference on Neural Information Processing Systems (NIPS 2010)

December 10, 2010. Whistler, BC, Canada

Overview

Prescriptive Bayesian decision making has reached a high level of maturity, supported by efficient, theoretically well-founded algorithms. While the long-standing problem of describing a single decision maker's bounded rationality is well-known, the similar problem for systems of multiple decision makers with limited cognitive, acting and evaluative abilities/resources has not been considered systematically. Societal, biological, and engineered systems involve such sets of multiple imperfect decision makers, and can provide insight into describing the behaviour of these systems.

The goal of this workshop is to explore connections between descriptive and prescriptive decision making of multiple imperfect decision makers. The workshop will focus on the relation between instances of bounded-rationality and imperfection of decision makers in natural and engineered systems.

The workshop aims to bring together different scientific communities, to brainstorm on possible research directions, and to encourage collaboration among researchers with complementary ideas and expertise. The workshop will be based on invited talks, contributed talks and posters. Extensive moderated discussions ensure targeted exchange.

The workshop's targeted audience is

- the NIPS community
- scientists from the scientific communities that study decision science, cognitive science, natural science, social science, engineering, etc.
- biologists, economists, social scientists, mathematicians and physicists.

Paper Submission

Submissions should be **at most 6 pages** in [NIPS format](#). Submissions in **pdf format only** should be sent to: imperfectDM2010@utia.cas.cz with the subject line "NIPS Workshop" and with the title, authors' names and abstract included in the body of the message. The deadline for submissions is **October 10, 2010**. Authors will be notified of acceptance/rejection decisions by **November 1, 2010**. Final versions of all accepted papers should be sent by **November 15, 2010**.

Please note that one author of each accepted paper must present the paper at the workshop.

Accepted papers will be made available in online proceedings. Extended versions of some accepted papers will also be invited for submission to an edited book to be published by [Springer](#) in the Intelligent Systems Reference Library series. The goal is a focused collection of papers considering decision making of interacting imperfect decision makers that should establish connections between descriptive and prescriptive viewpoint.

Contact

You can reach the organisers at imperfectDM2010@utia.cas.cz

Workshop web page: <http://www.utia.cz/NIPSHome>

NIPS Conference webpage: <https://nips.cc/Conferences/2010/>