COST Action IC1205 on Computational Social Choice: STSM Report

Applicant: Marija Slavkovik, University of Bergen, Norway

Host: Edith Elkind, Department of Computer Science, University of Oxford, UK

Dates: 03/04/2016 to 09/04/2016

Purpose of the STSM

The purpose of this STSM visit was to work with Dr Edith Elkind on the problem of extending distanace-based rationalisability results from voting theory to judgment aggregation. Upon discovering a mutual interest in iterative deliberation and consensus building procedures, we spent considerable amount of time discussing on this topic.

Description of the work

During my visit I worked closely with Dr. Elkind in Oxford. Additionally, I presented to her group the work I have done with Dr. Jerôme Lang on the relations between voting rules and judgment aggregation rules.

At this visit we established a mutual interest in deliberation procedures for voting and judgment aggregation. Dr. Elkind introduced me to work on this area in voting and preference aggregation, as well as to restricted domains in voting theory. We discussed work in judgment aggregation on the topic of relating judgment aggregation functions with voting functions.

Initially I anticipated that it would be feasible, during this visit, to look at distance-based rationalisations of voting rules and study particular properties of distances. However, it because obvious during this visit that we first have to write down the distance-based rationalisability of judgment aggregation rules, before we can proceed with looking at particular distance properties. We outlined the "bones" of this paper.

We had daily interesting discussions on the topic of building deliberation procedures for voting and judgment aggregation and outlined future research on this topic. One course of action is by combining works we have already done in this area.