

## COST Action IC1205 on Computational Social Choice: STSM Report

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**Dates:** 24/10/2013 to 02/11/2013

I was hosted for 10 days by Jérôme Lang at the LAMSADE institute at the Université Paris Dauphine. During this time we worked mainly on three projects.

1. Most of our time was spent on organising and preparing existing material on judgment aggregation rules and their properties for a journal submission. We first presented our initial results at TARK-2011 in Groningen<sup>1</sup>. The material (and list of coauthors) has since been extended, however not always in a coherent manner. In Paris we were able to complete a first draft of this submission.
2. We extended our work on building a formal framework for generalising voting rules as judgment aggregation rules, material which is to be presented at ADT-2013 in Brussels<sup>2</sup>. We extended the proposed framework by linking it to works on distance-based rationalisation of voting rules to include more voting rules including Dodgson, Borda, and Fallback Bargaining.
3. Lastly we worked on complexity-theoretic analysis of the judgment aggregation rules included in the pending submission of Item 1 and coordinated our future efforts on this topic.

I was also able to briefly meet with Gabriella Pigozzi and discuss a joint project on formalising the relationships between judgment aggregation rules and belief merging operators.

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<sup>1</sup><http://dl.acm.org/citation.cfm?doid=2000378.2000407>

<sup>2</sup>[urlhttp://link.springer.com/chapter/10.1007/978-3-642-41575-3\\_18](http://link.springer.com/chapter/10.1007/978-3-642-41575-3_18)