

# COST Action IC1205 on Computational Social Choice: STSM Report

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Host	Lane Hemaspaandra
Host institution	University of Rochester
Host country	USA
Dates	3/16/2015 to 3/29/2015

I visited the University of Rochester and worked there with my host Lane Hemaspaandra and Edith Hemaspaandra (from the Rochester Institute of Technology) on computational social choice.

During my visit, we worked on several questions regarding the complexity of control for election systems that can be defined as a pure scoring rule, building in part on results previously obtained by us when I visited Rochester in 2013 supported by COST Action IC1205 (which were presented at AAAI 2014). We obtained results for several control and bribery problems, which include both concrete characterizations for large classes of scoring rules as well as general reductions between these problems (in the context of scoring rules). We also worked on the preparation of a journal publication of our previously obtained results.

I also had interesting discussions with Ivona Bezakova (Rochester Institute of Technology), Zack Fitzsimmons (Rochester Institute of Technology), and Daniel Stefankovic (University of Rochester).

In addition, I gave a talk at the Rochester Institute of Technology, in the RIT-UR Theory Seminar series, titled "Information-Flow Security: Definitions, Characterizations and Verification Complexity."

I had a very nice time in Rochester, which led to promising complexity results. I am very thankful to the STSM committee for this opportunity.