

Report on the Scottish Theorem Proving meeting 2019

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1 Summary

The 2019 meeting of the Scottish Theorem Provers (STP'19) was held on 12/12/19 at the International Centre for Mathematical Sciences in Edinburgh. The topic was Representation, Reasoning and Verification. This was organised by Rob Stewart (Heriot-Watt University), Oana Andrei (University of Glasgow) and Alison Pease (University of Dundee). This seminar series provides a common venue for communication and sharing of ideas by researchers working on theorem proving and other related fields of automated reasoning and verification.

There were 19 participants. Five talks and one demo were held, and a community discussion, in which the name of the community was discussed, alongside practical arrangements for keeping in touch, expanding the community, and frequency and locations of meetings.

The meeting was funded by the SICSA theme “Theory, Modelling and Computation”.

2 Programme

The programme featured a good range of talks on diverse topics, from a variety of universities in Scotland and from speakers at different career-stages. Many of these features were positively commented on by participants, with the series being known as a friendly venue for PhD students and RAs to discuss their work in progress and get feedback.

11:00 - 11:30 Petros Papapanagiotou (University of Edinburgh)

Logic-based workflow management and optimisation

11:30 - 11:45 Petros Papapanagiotou (University of Edinburgh)

WorkflowFM Demo

11:45 - 12:00 Oana Andrei (University of Glasgow)

Interpreting Probabilistic Models of Social Group Interactions in Meetings

12:00 - 13:00 Lunch

13:00 - 14:00 Invited talk: Radu Mardare (University of Strathclyde)

Quantitative formal reasoning

14:00 - 14:30 Ciaran Dunne (Heriot-Watt University)

Mathematical Foundations More Suitable for Education and Verification

14:30 - 14:45 Coffee break

14:45 - 15:00 Community Discussion

15:00 - 15:30 Juan Casanova (University of Edinburgh)

CESQ Logic: A formalism for expressing queries in restricted second-order logic

3 Next meeting

Jan De Muijnck-Hughes will host the next meeting in April 2020, at the University of Glasgow.