

SICSA Research Theme Activity Report

Please complete all sections of this reporting template and submit within 3 months of your event or activity taking place. This report will allow the SICSA Directors to provide detailed information about the progress of the SICSA Research Themes to the Pool funders, SFC, and your cooperation is appreciated.

Name of event organiser: Oana Andrei and Michele Sevegnani

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Institution: School of Computing Science, University of Glasgow

Title of event: Scottish Seminar on Formal Modelling, Verification and Synthesis (SFMoVeS'19)

Location of the event: School of Computing Science, University of Glasgow

Date of event: 9 September 2019

From which SICSA Research Theme was this event funded? Theory, Modelling and Computation

Total funds claimed for event: £325.80

Please outline in brief what took place at the event, providing details of speakers and titles of talks:

The event consisted of three invited talks and three contributions as follows:

- * Prof Alice Miller (University of Glasgow) - Collaborative models for autonomous controller synthesis and deployment – invited talk
- * Prof Guido Sanguinetti (University of Edinburgh) - Geometric fluid approximations for general continuous time Markov chains – invited talk
- * Prof Simon Dobson (University of St Andrews) - Understanding sensing from a more formal perspective – invited talk
- * Dr Yasmin Rafiq (University of St Andrews) - Continual Runtime Formal Verification of QoS Properties with Confidence Intervals
- * Dr Clemens Kupke (University of Strathclyde) - Coalgebra Learning
- * Dr Jan de Muijnck-Hughes (University of Glasgow) - Well-Typed Models are Correct Models

These talks covered a wide range of topics from qualitative and quantitative modelling and reasoning over systems and thus showcased very well the broadness of the research in formal modelling, verification and synthesis in SICSA institutions.

The event started at 10:00 with registration and coffee for 30 minutes in order to allow the participants to chat among themselves and network. We had an one hour lunch break when the participants again had time to network.

Please provide details of how many attended and if possible, information about which institutions were represented:

There were 22 participants, most of them from the University of Glasgow. There were about 1-2 participants from each of the following institutions: University of Edinburgh, University of Strathclyde, Heriot-Watt University, University of St Andrews, Edinburgh Napier University, Glasgow Caledonian University, Lancaster University.

Outcomes:

Please give details of any research papers that have come or are pending as a result of this activity:
N/A

Please provide details of any grant applications that have come or are pending as a result of this activity:
N/A

Please provide details of any further outcomes that have come as a result of this activity:
We think that the event was successful and raised interest from researchers in the area working at SICSA related institutions. Therefore we are considering having these workshops as regular annual events either as standalone or joined with the Scottish Theorem Proving seminar (which in fact is on course to change the name and scope to include a wider range of reasoning and verification methods).

Do you have any plans to bid for further SICSA Theme Funding in the future?
Yes, we think the community of researchers in formal modelling and verification in Scotland would benefit from a regular SFMoVeS workshop series. In particular, we believe our format consisting of a balanced mix of engaging presentations from established and senior academics together with shorter talks from PhD students and early career researchers is very well suited to foster an inclusive research environment on these topics in Scotland.