Compositional Modelling and Analysis of Quantitative Systems Workshop, University of Edinburgh, 8th Sept 2012

Joint with the ERCIM Working Group on Models and Logics for Quantitative Analysis (MLQA), the SICSA Modelling and Abstraction Theme organised a workshop in Edinburgh which took place on 8th September 2012. The workshop was organised by Jane Hillston of the University of Edinburgh and Gethin Norman of the University of Glasgow. The theme of the workshop was Compositional Modelling and Analysis of Quantitative Systems. Compositionality is a key concept in both the modeling and analysis of computer systems. It is only by decomposing large complex systems into smaller pieces that we can build and analyse such systems.

The aims of the workshop was to bring together researchers working on quantitative modelling and analysis of computer systems focusing on research using compositional techniques and encouraging interaction and collaboration between the attendees. The workshop was attended by approximately 30 participants with 15 from SICSA institutions.

There were four invited talks relating to the theme of the workshop. The first was given by Pedro D'Argenio (FaMAF, Universidad Nacional de Cordoba) on "Security analysis in probabilistic distributed protocols via bounded reachability". The second talk on "Compositional model specifications and analyses via product-forms" was presented by Andrea Marin (Universita di Venezia). Jaco van de Pol (University of Twente) gave the third on "Symbolic Manipulation of Markov Automata" and the final invited talk "Exact Aggregation for Fluid Process Algebra Models" was presented by Mirco Tribastone (Ludwig-Maximilians-Universität München).

In addition to this, as well as a poster session, there were three contributed talks from SICSA members: Vashti Galpin (University of Edinburgh) "Stochastic hybrid modelling with composition of flows"; Saray Shai (University of St Andrews) "Coupled adaptive complex networks" and Chris Banks (University of Edinburgh) "A logic for behaviour in context". The workshop also included a business meeting for the MLQA ERCIM Working Group.