



Seminar: Evolution of Assurance Case Practice

4th April 2019, Hilton London Euston Hotel, London

This seminar features six talks from experts in the latest techniques for assuring complex systems and services. Assurance is evolving: not only utilising new techniques and methods, but now covering not just Safety but other areas such as Security, Business Resilience and Availability.

Automotive safety argumentation will be covered; so too will combined safety-security assurance approaches for civil aviation. Robin Bloomfield will present approaches for assuring autonomous systems.

Tim Kelly will present on the Structured Assurance Case Metamodel (SACM) 2.0. SACM supports approaches such as the Goal Structuring Notation (GSN) and Claims-Argument-Evidence (CAE). SACM incorporates and extends developments of GSN, including Assurance Case Patterns and Modular Safety Case Construction within a new unified standard. SACM also provides an enabling framework for new developments including dialectic argumentation, better management of evidence, reasoning about confidence, automated reasoning support for arguments and dynamic assurance cases processed and executed at run-time.

The latest thinking from the SCSC Assurance Case Working Group on current topics will also be presented.

There will be a panel session at the end of the day where the audience has an opportunity to put further questions to the speakers.

Bookings at:

www.scsc.uk/events

This seminar is an opportunity to hear about the latest developments in assurance techniques and assurance cases. It will be useful for assurance engineers and assurance managers.

It will also be of interest to ISAs, regulators and those involved in assessing safety cases and performing safety audits.

Details at: www.scsc.uk



New Thinking in Safety and Assurance Cases

www.scsc.uk

Cost and registration: Club members: £195, including lunch and refreshments (no VAT). Non-members additional £95 for Club membership. Students/retired and those under 26: £99, which includes free membership for one year. Joining instructions and the programme will be sent to delegates before the event. Delegates must book their own accommodation (if required).

Safety-Critical Systems Club: I would like to attend the seminar on April 4th, 2019

Name Organisation

Address

Telephone..... Email..... Vegetarian: Yes/No

I am not an SCSC member, so need to join and pay £290 Existing SCSC member rate £195 Student rate £99

To pay by cheque, please enclose a cheque payable to: University of York

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Booking and payments can be made at: www.scsc.uk/events

Or return this slip and payment to: Alex King, Dept. of Computer Science, University of York, Deramore Lane, York, YO10 5GH.
Phone: 01904 325402, Email: alex.king@scsc.uk

Evolution of Assurance Case Practice

Thursday 4th April 2019

09:00 – 09:30 Registration and Coffee

Main Programme

09:30 – 09:35 Introduction

09:35 – 10:20 Robin Bloomfield
Adelard **Evolution of Assurance Cases for Autonomous Systems**

10:20 – 11:05 John Birch
Horiba MIRA **What's the case for safety in Automotive?**

11:05 – 11:35 Coffee

11:35 – 12:20 Tim Kelly, Simon Foster and
Nungki Selviandro
University of York **Evolving Assurance Case Practice using the Structured Assurance Case Metamodel (SACM) 2.0**

12:20 – 13:20 Lunch

13:20 – 13:25 SCSC Events Update

13:25 – 14:10 Tim Kelly, Simon Foster and
Nungki Selviandro
University of York **Evolving Assurance Case Practice...ctd.**

14:10 – 14:55 Andy Scott
NATS **Assurance Cases for Air Traffic Services**

14:55 – 15:25 Tea

15:25 – 16:10 Paul Chinneck
Altran
Yvonne Oakshott
Leonardo **Dialectic Arguments**

Extras

16:10 – 16:50 Panel Session **A wrap-up session chaired by Mike Parsons giving delegates an opportunity to put further questions to the speakers**

16:50 Tea and snacks with opportunities for networking