



www.scsc.uk/events

This seminar is an opportunity to hear a range of talks by industry experts on IoT applications, risks and management.

It is aimed at those involved in assurance activities involving IoT devices. It will also be useful for those developing, assessing and regulating IoT technologies.

Details of this and other events at: www.scsc.uk



How to ensure the safety of IoT devices

www.scsc.uk

THE SAFETY-CRITICAL SYSTEMS CLUB

Seminar: Safety of the Internet of Things

14th June 2018, Radisson Blu Edwardian Grafton Hotel

130 Tottenham Court Rd, Fitzrovia, London, W1T 5AY

The Internet of Things (IoT) is now used in our health systems, our homes, our transport, our workplaces and even in our bodies. IoT devices include wearables, implanted health monitors and in-vehicle systems, and devices within the infrastructure we rely on every day: power plants, medical devices and transport systems. Along with new services and products using IoT come new risks and safety concerns. From surveillance cameras to insulin pumps, drones to smart cars, correct operation of these devices is now essential for public safety.

IoT technologies like smart helmets, wireless sensors, GPS tracking, and RFID tags can have a real safety benefit, allowing detection of faults earlier and preventing failures. But there is also a downside as many of these devices can be hacked. SCADA systems have weaknesses such as those exploited by Stuxnet; home control hubs can be vulnerable, allowing attackers to tamper with heating, lighting, power and door locks.

This seminar will consider the safety risks with the use of IoT in several areas and applications and examine approaches to their management.

There will be two panel sessions: at the end of the morning and the afternoon, both chaired by Tim Kelly. Tim will present key points from the talks and provide the delegates a further opportunity to put questions to the speakers.

Cost and registration: Club members: £195, including lunch and refreshments (no VAT). Non-members additional £95 for Club membership. Students 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 June 14th, 2018

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

To pay by credit card, please complete the following: ☐ MasterCard ☐ Visa ☐ American Express

Name on card Card number..... *Please provide security*

Amount to be charged Expiry date Security No *number by telephone.*

Cardholder's Address

Booking and payment can now be made through the Safety-Critical Systems Club website.

Please see the Events page at www.scsc.uk/events to secure your place.

Please return this slip and payment to: Alex King, Department of Computer Science, University of York, Deramore Lane, York, YO10 5GH.

Phone: 01904 325402

Fax: 01904 325599

Email: alex.king@scsc.uk

Safety of the Internet of Things

14th June 2018

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Programme

- 09:00 **Registration and coffee**
- 09:25 **Introduction**
- 09:30 **Mike Loughran**
Rockwell Automation
Safety and Security Considerations for the Industrial Internet of Things – A Manufacturing Perspective
- 10:15 **Justin Lowe**
PA Consulting
IoT security and safety Implications
- 11:00 **Coffee**
- 11:25 **Chris Johnson,**
University of Glasgow
Carsten Maple
University of Warwick
An Antidote for Paranoia or Supercharging the Concerns: Evidence Based Approaches to Cybersecurity in the Domestic and Industrial Internet of Things
- 12:25 **Panel Session 1**
A session chaired by Tim Kelly giving delegates a further opportunity to put questions to the speakers so far
- 12:50 **Lunch**
- 13:50 **SCSC Update**
- 13:55 **Emil Lupo**
Imperial College
Trusting IoT Systems
- 14:40 **Stuart Harrison**
NHS Digital
Clinical Risk Management for Health Informatics and IoT Healthcare Devices - Trends for Clinical Safety
- 15:25 **Tea**
- 16:55 **Alex Bell**
CGI
IoT in Industrial Buildings Incorporating Safety and Security within an Agile Methodology
- 16:40 **Panel Session 2**
A wrap-up session chaired by Tim Kelly giving delegates a further opportunity to put questions to the speakers
- 17:05 **Close and opportunities for networking**