Automation topics and trends are characterized by permanent change and the enormous development of intelligent, digital networking of machines, plants and products in all industrial sectors. This increasingly presents companies with safety-related technological challenges.

As a result, the topics of Functional Safety and Cybersecurity have developed into the major topics in industrial automation in the past years.

This TÜV Rheinland Symposium will focus on these topics and developments in the various industrial application areas.

Experts and specialists from industry and science offer practice-oriented lectures as well as opportunities for interactive exchange of experience.

Take advantage of the opportunity to get into direct exchange and talks again, to experience innovations on site and to win new customers or business partners.

**TOPICS**
- Functional Safety and Cybersecurity
- Safety of Machinery
- AI Artificial Intelligence
- Management Systems
Organization

Target Group
- Integrators of safety relevant installations.
- Manufacturers and designers of safety related components and systems approval authorities

Conference Language
English

Proceedings
- The proceedings/presentations will be published on the TÜV Rheinland website for Functional Safety.
- Participants will be informed by email accordingly.

Fee
$950.00 | Contact Ted Hashke Thaschke@us.tuv.com for group registrations.

Registration
- The fee includes attendance at the Symposium, morning and afternoon refreshments, lunch, and evening entertainment with dinner on October 16th. The fee does not include cost of accommodation.
- After starting your registration, you will be directed to a payment portal in order to confirm your participation.
- Upon registration you will receive an email confirmation with further details.

Venue
Boston Marriott Copley Place
110 Huntington Ave
Boston, MA 02116

Evening Entertainment
The evening of October 16, we will host a celebratory event with City Cruises Boston. Registrants can enjoy dinner and drinks, along with networking with other attendees.

Hotel Reservation
The event will be held at the Boston Marriott Copley Place at 110 Huntington Ave, Boston, MA 02116. TÜV Rheinland has secured a room block with a negotiated rate for the event. Upon registration, you will receive the link for booking the hotel. The deadline for booking your room using this code is September 15, 2023.

www.tuv.com
Program – Day 1

Registration 8:30 am
Start 09:00 am

Welcome
Sven Nowak, Matthias Hayn!
TUV Rheinland of North America | USA
Manuel Jesus Diez San Jose
TÜV Rheinland Industrie Service | Germany

Unlocking the Power of AI to Enhance Industrial Safety
Riccardo Mariani
NVIDIA | USA

Guidance on adopting IEC 61508 as an indicator for product quality of nuclear industry components
Alan Campbell
NEI - Nuclear Energy Institute | USA

Implementing a Diagnostics, Alarming and Testing Strategy at a Nuclear Particle Accelerator Facility
Paul Metcalf
Jefferson Lab (U.S. Department of Energy) | USA

Coffee Break

Machinery Safety Field Application: The challenge of harmonizing safety standards in global companies
Devin Murray
Schmersal | USA
João Paulo Bernardes
Schmersal | Brazil

Artificial Intelligence for Safety-Critical Systems
Jon Perez-Cerrolaza
IKERLAN | Spain

Update on global adoption of ISA/IEC 62443 for securing OT cybersecurity
Andre Ristaino
ISA - International Society of Automation | USA

Coffee Break

Cybersecurity Risk Assessment - Lessons Learned
Farshad Hendi, Michael Twumasi
Schneider Electric | USA

How to build a low cost, yet effective ICS cybersecurity program
Harsha Banavara
S&C Electric Company | USA

The Importance of Operations & Maintenance PSM Training, with Specific Emphasis on Cyber Security
Chet S. Barton
Hargrove Controls & Automation | USA

End of 1st Symposium Day 05:00 pm

Evening Program pickup 06:00 pm
Program – Day 2

Start 09:00 am

Digital transformation of FS in the Process Industry
Mike Scott
AeShield | USA

No Safety without Security - No Security without Safety
Tino Vande Capelle, Denrich Sananda
TVC Functional Safety Services FZ-LLC | Belgium, Canada

Abdul Aziz Abri
Petroleum Development Oman | Oman

Coffee Break

Importance of Cybersecurity Standards Certifications
Ali Behbahani
Rockwell Automation | USA
Sven Nowak
TUV Rheinland of North America | USA

Establishing Setpoints for Stacked Instrumented Safeguards
Eloise Roche
SIS-Tech | USA

How Cybersecurity and Safety Functions Fit in the Future of Industrial Automation and Control Systems
Ian Verhappen
Willowglen Systems | Canada

Lunch

On Vulnerability handling and management in Electronic systems when meeting IEC62443: novel tools and techniques
David Gonzalez, Cristobal Arellano
IKERLAN | Spain
Salvador Trujillo
ORBIK Cybersecurity | Spain

Markov Model showing impact of Security and Safety layers in light of the new IEC 61784-3
Steve Seidlitz
Rockwell Automation | USA

IEC 62443-4-1 From the Trenches
John McDonald
TUV Rheinland of North America | USA

Coffee Break

Networking and Open Discussions

Discussion End approx. 04:00 pm