



16th International TÜV Rheinland Symposium

Functional Safety and Cybersecurity in Industrial Applications

September 15 + 16, 2026 in Cologne, Germany

CALL FOR PAPERS

Venue: **Headquarters TÜV Rheinland – Cologne, Germany**
Rheinland Saal

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TÜV Rheinland would like to invite experts, professionals, practitioners, trainers, researchers and regulatory experts to present, discuss and verify new concepts, methods and experiences relating to Functional Safety, Cybersecurity and AI.

This specialist event is intended to be a platform for intensive experience exchange for those involved in Functional Safety and Cybersecurity of different industrial application areas.

Participants and speakers will meet face-to-face and will have the possibility to interact and exchange experiences and knowledge in a non-virtual ambience.

Experts and specialists are invited to submit presentation proposals on technical developments and trends of state-of-the-art in Functional Safety and Cybersecurity and AI. This also includes field reports, project examples as well as discussions on technical problems.

Each presentation will be followed by a short Q&A session and discussion.

The event will be accompanied by 2 presenters.

Product or promotional/commercial presentations as well as presentations based on basic knowledge or skills will not be accepted.

The Symposium will be held bilingually (German and English) and simultaneously translated.

Audience Target Group

System and software architects, HW/SW and development engineers, product managers, project managers, safety-, security- and quality managers, plant operators, etc.

Areas: Mechanical and automation engineering, product development and manufacturing, process industry.

Presentation

- Speakers have 20-30 minutes time for their speech/presentation.
- After each speech/presentation, Q&A sessions are intended and will be moderated.
- Speakers shall apply a PowerPoint presentation.
- The ppt-presentation shall be in English language only.
- If possible, all ppt-presentations shall be available for download on the TÜV Rheinland website after the event.



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**Deadline Abstract
February 10, 2026**

Abstracts

If you are interested in giving a presentation, please send us information as follows:

1. Title of presentation/speech
(either in English and/or in German).
2. Your name i.e. author name with email address.
3. Exact company name.
4. Short summary of the presentation topic.

(This information will be indicated in the programm flyer.)

Please submit your abstract and presentation to:

veronica.gras@de.tuv.com

**Please send us your presentation proposal by
February 10, 2026 at the latest.**

Program

The program will be finalized and advertised at the end of May.

Speakers will be informed by email, if their speech has been accepted and will then also get further information like on which day and at what time their presentation will take place.

Power Point Presentation

Authors are requested to submit their presentation in Power-Point format (ppt) only.
The presentation shall be in English language.
(or bilingual: German + English).

Presentations in pdf-format will not be accepted.

The ppt-presentation shall be forwarded to TÜV Rheinland by **September 1, 2026**.

Deadlines

- | | |
|-----------------------|----------------------|
| ➤ Receipt of abstract | by February 10, 2026 |
| ➤ Program finish | April / May 2026 |
| ➤ Send presentation | by September 1, 2026 |

Contact

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Topics of interest are:

- **International Standards:**
Contents / Status / Maintenance.
IEC 61508 – current status of 3rd Edition
IEC 61511
IEC 62061, ISO 13849
ISO 26262, ISO 21434, ISO 21448
IEC 62443
VDE-AR-E 2842-61
EN 50742
EN 17955
VDI/VDE 2180-5
EN IEC 61800-5-3:2023
- **Relevance of FS and Cyber Security Standards in worldwide regions**
- **New European Directives**
Cyber Resilience Act (CRA) EU 2024/2847
EU-Machinery Regulation EU 2023/1230
AI-Act EU 2024/1689
RED 2014/53/EU
- **Examples and Trends of Applications in different Industries:**
Process Industry, Oil & Gas / Machinery / Energy etc.
 - Functional Safety and Security for **Autonomous Guided Vehicles (AGV)** for Machinery and Process Industry.
 - Functional Safety and Cybersecurity for **Battery Management Systems.**
 - **Safety in Hydrogen Production**
- **Penetrationtests**, security tests, tools, frameworks, case studies
- Functional Safety and/or Cyber Security **Management Systems.**
- **Field Instrumentation:**
Networks (Communication / Safety / Security);
Application Software; Verification / Validation.
- Relevance of **Accreditation** of Cybersecurity (IEC 62443 series, ISASecure).
- **Artificial Intelligence** in the context of Functional Safety and Cybersecurity.
AI risks: Alignment of AI systems with human values, preferences and ethical principles.
AI safety: robustness, learning under uncertainty, explainability, Trustworthy AI (trustworthiness) in safety-critical applications (e.g. automotive, industry, medicine)
- **Data Protection**, Privacy-Preserving Techniques in safety relevant systems
- **Cloud, OT and IoT-Sicherheit** in safety-critical environments
- **Human Factor / competencies, security awareness**

.... are welcome.