

## Seminar

### Emerging risks in industry 4.0: innovative approaches for safety and security

#### Promoted by:

Inail - Department of technological innovations and safety of plants, products and anthropic settlements (Dit)

ISSA – Section on Machine and System Safety

#### Scientific committee

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**INAIL**



**issa**

INTERNATIONAL SOCIAL SECURITY ASSOCIATION

*Section on Machine and System Safety*

**VISION ZERO**

Safety.Health.Wellbeing.

Rome, November 25<sup>th</sup> 2019

Inail, "Sala del Parlamentino", 1<sup>st</sup> floor  
Via IV Novembre, 144

# PROGRAM

- 9:00 Registration
- 9:30 Welcome  
**Carlo De Petris**, Inail, Italy  
**Jürgen Schulin**, BGN, Germany
- Plenary Session**  
*Moderators:*  
**Hans Jürgen Bischoff**, ISSA, Germany  
**Ernesto Del Prete**, Inail, Italy
- 9:45 Immersive experiences through augmented, virtual and mixed reality: uses, challenges and opportunities  
**Enzo Pasquale Scilingo**, Pisa University, Italy
- 10:15 Near misses management in the framework of Seveso legislation  
A valuable resource for more effective inspections  
**Paolo Bragatto**, Inail, Italy
- 10:45 Cyber security  
Cyber-physical security threats to OSH in Industry 4.0  
**George Loukas**, Greenwich University, UK
- 11:15 *Coffee break*
- 11:30 Integrating exoskeletons and Industry 4.0  
Developing exoskeletons for the industry of today  
**Jesús Ortiz**, Italian Institute of Technology, Genoa, Italy
- 12:00 Cobots: present and future  
Industrial application, operating modes and critical issues in collaborative robots  
**Fabio Pera**, Inail, Italy
- 12:30 Green world – safe and sound?  
Decentralized ecological energy production: OSH challenges and risks for SMEs in planning and safe handling  
**Oswald Losert**, ISSA Section Chemistry/BGRCI, Heidelberg, Germany
- 13:00 Early Stage Safety Planning via Virtual Modelling  
The pros and cons of using mighty software  
**Rudolf Pichler**, Technical University Graz, Austria
- 13:30 *Light lunch*
- 14:15 Maintenance via remote access  
Risk assessment from the point of view of occupational health and safety  
**Thomas Schulz**, BGHM, Düsseldorf, Germany
- 14:45 Training 4.0 – competence development for OSH in the industry 4.0 era  
**Ruediger Reitz**, Institute for Work and Health of German Social Accident Insurance (IAG), DGUV Academy, Dresden, Germany
- 15:15 Final discussion
- 16:00 Closure