



Wednesday, March 25, 2020

11:15 **Registration & Welcome snack**

12:30 **Welcome**

Andreas Czylik, *EUSAS Chairman*

Erwin Schoemaker, *Federatie Veilig Nederland*

Session 1 What is Artificial Intelligence General issues

Chairman Sebastian Festag, *Hekatron*

13:00 **Artificial Intelligence: Definition and history**

Santosh Sharman, *KIWA, Netherlands*

René Bisperink, *KIWA, Netherlands*

13:30 **Connection between AI and fire Industry**

Paul van der Zanden, *Euralarm*

14:00 **AI-methods in smart buildings**

Hilko Hoffmann, *DFKI, Germany*

14:30 **Coffee break**

Session 2 What can AI do for fire detection and security – Opportunities / benefits (Part 1)

Chairman Lance Rütimann, *Siemens*

15:30 **Artificial Intelligence and fire safety
engineering**

Guillermo Rein, *Imperial College London, UK*

16:00 **Opportunities that Artificial Intelligence offers
in respect of fire detection**

Paul Sant, *University of Bedfordshire, UK*

16:30 **Protocol of validation of Artificial Intelligence
in security / safety devices**

Ibrahim Daoudi, *CNPP, France*

17:00 **Deep learning for video smoke detection:
Opportunities and challenges**

Andreas Wellhausen, *Bosch, Germany*

18:00 **EUSAS Annual General Meeting
(members only)**

20:00 **Conference dinner**

Thursday, March 26, 2020

09:00 **Welcome for the second conference day**

Session 2 What can AI do for fire detection and security – Opportunities / benefits (Part 2)

Chairman Lance Rütimann, *Siemens*

09:15 **AI + BIM**
NN

09:45 **Risks and benefits when training AI on
synthetic data**

Philip Dietrich, *Bosch, Germany*

10:15 **Artificial Intelligence and Fire Fighting
intervention**

Florian Vandecasteele

AE - architects for business & ICT, Belgium

10:45 **Coffee break**

Session 3 How to manage the consequences of AI: Risks / consequences

Chairman Peter Massingberd-Mundy, *Xtralis*

11:30 **Understanding and influencing the future EU
legislative framework**

Pierre Lucas, *Orgalim*

12:00 **What AI standards & legislation could mean for
our industry; Europe and worldwide**

Lance Ruetimann, *EURALARM*

12:30 **Panel discussion**

13:00 **Closing of the conference**

Andreas Czylik, *EUSAS Chairman*

Erwin Schoemaker, *Federatie Veilig Nederland*

13:15 **Business lunch**

14:30 **End of the second conference day**

Aim of the conference



EUSAS e.V. (European Society for Automatic Alarm Systems e.V.; c/o University Duisburg-Essen) provides a European platform for promoting the science of fire protection and security comprising fire detection, extinguishing, intrusion detection, access control and video monitoring.

The principal objective is experience sharing, exchange of views among professionals, and know-how consolidation. For this purpose EUSAS e.V. organises conferences.

The aim of this EUSAS conference is to give an overview about artificial intelligence in fire detection and security. The first session gives an introduction to Artificial Intelligence (AI) to achieve common understanding of what it means and what the commonalities are between AI, big data, machine learning, deep learning.

The second session shows examples how AI can support or optimise fire detection and security in the area of solutions and solutions with future applications, technologies and research. The last session reviews the use of AI technology within defined safe and ethical boundaries as the basis for the future of technical standards and legislative norms in our industry.

Target group

The conference is aimed at representatives of the fire industry, test institutes, standard developers, practitioners and to scientists, who are interested in fire protection engineering and / or in the EUSAS work in context of fire detection and system technologies.