

Date of the conference

March 16 - 17, 2021

Venue

Online conference

Conference fees

EUSAS members	free of charge
Students	50 EURO
Public services (e.g. fire brigades)	150 EURO
Others	150 EURO

Please use the enclosed registration form and send it by email to eusas@uni-due.de by **March 9, 2021 at the latest**.

Please note that the number of conference participants is limited and will be allocated on a first come first served basis.

You may also find the registration form on the EUSAS homepage www.eusas.org/events

Cancellation

Registrations can be cancelled in written form without charge until 2 weeks before the conference. No re-imbusement of fee is possible in case of later cancellation. In case a registered participant is indisposed, it is possible to appoint a deputy. Please be so kind to give us the person's name well in advance. In case the conference is cancelled by EUSAS, we shall reimburse the registration fee that has already been paid. EUSAS shall not accept any claims beyond that.

Conference organisation

Universität Duisburg-Essen
EUSAS e.V. Sekretariat
Dr.-Ing. Thorsten Schultze
Mrs. Patricia Mang
Bismarckstrasse 81
47057 Duisburg / Germany
e-mail eusas@uni-due.de

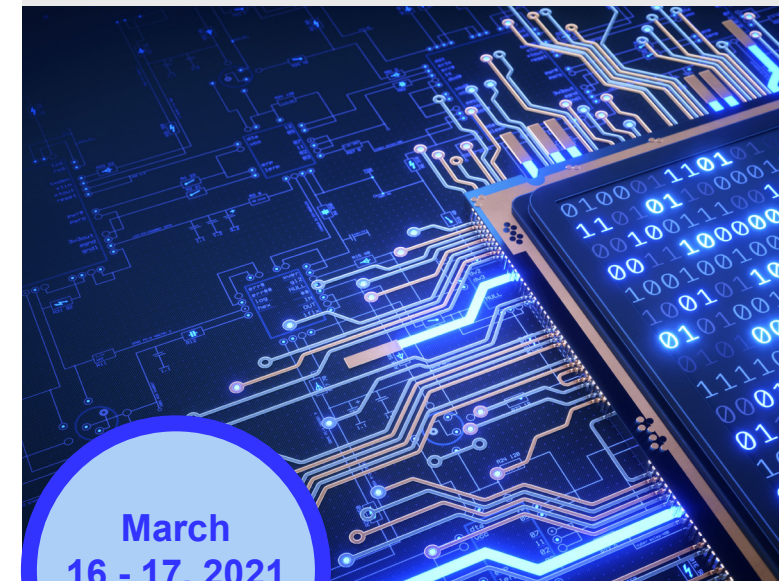
UNIVERSITÄT
DUISBURG
ESSEN



European Conference on

Artificial intelligence in fire detection and security – without the hype

Conference language
English



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Tuesday, March 16, 2021

13:30 **Welcome**
Andreas Czulwik, *EUSAS Chairman*

Session 1 What is artificial intelligence? General issues

13:45 Sebastian Festag, *Hekatron, Germany*

14:00 **Artificial intelligence: Definition and history**
Santosh Sharman,
René Bisperink, *KIWA, Netherlands*

14:30 **AI-methods in smart buildings**
Hilko Hoffmann, *DFKI, Germany*

15:00 **Break**

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

15:30 Lance Rütimann, *Siemens, Switzerland*

15:45 **Artificial intelligence and fire safety engineering**
Guillermo Rein, *Imperial College London, UK*

16:15 **Connection between AI and fire industry**
Paul van der Zanden, *Euralarm*

16:45 **Discussion**

17:00 **End of the first day (summary)**
Lance Rütimann, *Siemens, Switzerland*

Wednesday, March 17, 2021

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

09:00 Lance Rütimann, *Siemens, Switzerland*
(review the first day)

09:15 **AI-related vulnerabilities in security / safety systems**
Ibrahim Daoudi, *CNPP, France*

09:45 **Temporal deep learning for video smoke detection**
Andreas Wellhausen, *Bosch, Germany*

10:15 **Risks and benefits when training AI on synthetic data**
Philip Dietrich, *Bosch, Germany*

10:45 **Break**

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

11:15 Peter Massingberd-Mundy, *Xtralis, UK*

11:30 **Understanding and influencing the future EU legislative framework on AI**
Tadas Tumenas, *Orgalim*

12:00 **What AI standards & legislation could mean for our industry**
Lance Rütimann, *Euralarm*

12:30 **Discussion**

13:00 **Closing of the conference**
Andreas Czulwik, *EUSAS Chairman*

13:15 **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 current and 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 and security industry, test institutes, standard developers, practitioners and to scientists, who are interested in fire protection and security engineering and / or in the EUSAS work in context of fire detection and system technologies.