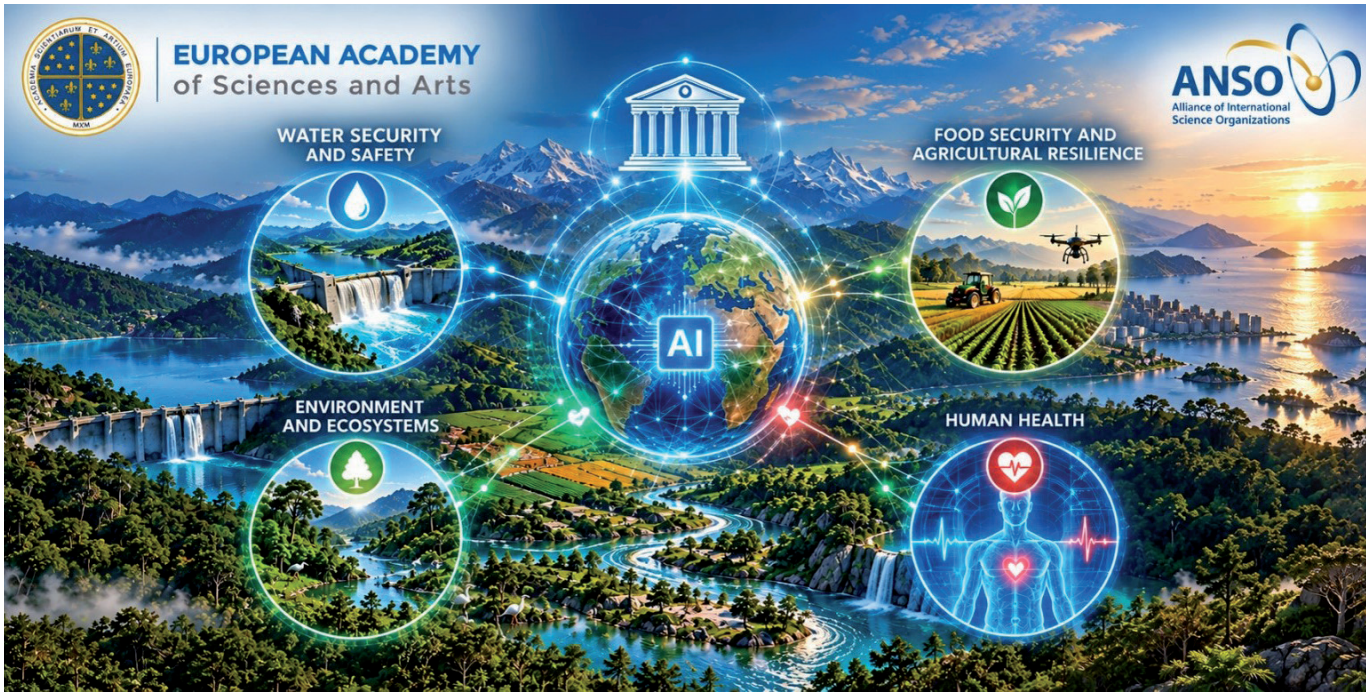



CAS-ANSO funded Conference

ANSO
Alliance of National and International Science Organizations for the Belt and Road Regions

# APPLIED AI AND COMPLEX SYSTEMS

## Water Security and Safety • Food Security and Agricultural Resilience • Environment and Ecosystems • Human Health

EUROPEAN ACADEMY of Sciences and Arts

European Academy of Sciences and Arts (Host)

*In collaboration with*

Serbian Academy of Sciences and Arts

University of Zagreb

Alma Mater Europaea

South China University of Technology

# ANSO–EASA INTERNATIONAL CONFERENCE

**Date:** 13 November 2026

**Time:** 08:30 am – 05:30 pm

**Venue:** Bibliotheksaula (Library Hall), University of Salzburg, Austria, Hofstallgasse 2-4

**Participation:** By Invitation Only

## Overview

The European Academy of Sciences and Arts (EASA), in cooperation with international academic partners and ANSO member institutions, is pleased to announce the international conference:

### Applied AI and Complex Systems

The conference will explore how Artificial Intelligence and Complex Systems Science can contribute to addressing some of the most pressing global challenges, including:

- Water security and safety
- Food security and agricultural resilience
- Environmental and ecosystem sustainability
- Human health
- Integrated AI-driven solutions for sustainable development

The meeting will bring together internationally recognized scholars and experts from Europe, Asia, and North America to discuss innovative approaches that combine artificial intelligence, mathematical modeling, systems thinking, and sustainability science.

The conference aligns with several United Nations Sustainable Development Goals and promotes interdisciplinary collaboration and international scientific exchange.

## Organizers

European Academy of Sciences and Arts (EASA)

### Conference Chairs

- Prof. Dr. Ioannis Liritzis, Vice President, EASA
- Prof. Dr. Klaus Mainzer, President, EASA

## Co-Hosting Institutions

- Serbian Academy of Sciences and Arts (member of ANSO)
- University of Zagreb (member of ANSO)
- Alma Mater Europaea (AMEU)
- South China University of Technology (SCUT)

## Main Themes

**Artificial Intelligence and Complex Systems for:**

- Water security and resilience
- Agricultural sustainability and food security
- Environmental monitoring and ecosystems
- Human health and well-being
- Climate intelligence and digital twins
- Risk assessment and decision support systems
- AI ethics and responsible innovation
- Cross-sectoral sustainability solutions

## Speakers

08:30 – 09:00 **Introduction**

Prof. Dr.DDr.h.c. Klaus Mainzer, EASA President

Prof. Dr. Ioannis Liritzis, Vice President, EASA

09:00 – 09:15 **Prof. Stavros Stavrinides,** Physics Department, Democritus University of Thrace, Greece

Ordinary Member, Class IV - Natural Sciences, European Academy of Sciences and Arts

- ***"Reservoir Computing: Complexity's Contribution to AI"***

09:15 – 09:30 **Prof. Aleksander Zidanšek,** Professor at the Institute „Jožef Stefan", Slovenia

Ordinary Member, Class IV - Natural Sciences, European Academy of Sciences and Arts

- ***"Opportunities of AI in Education for Sustainability"***

09:30 – 09:45 **Wolfram Mauser,** Deptartment of Geography, Chair em. for Remote Sensing, Ludwig-Maximilians Universität, München, Germany, Ordinary Member, Class IV - Natural Sciences, European Academy of Sciences and Arts

- ***„Enhancing the Resilience of the Water-Food-Energy Nexus - the role of real and artificial intelligence"***

09:45 – 10:00 **Prof. Hongmin Cai,** South China University of Technology, Future Technology Institute, China

- ***"Modeling Multi-Modal Brain Connectomes for Brain Disorder Diagnosis via Graph Diffusion Optimal Transport Network"***

10:00 – 10:30 Coffee break

10:30 – 10:45 **Prof. Tanja Cirkovic Velickovic,** Professor, University of Belgrade - Faculty of Chemistry, & Serbian Academy of Sciences and Arts

- ***"Towards AI-supported Integrative Risk Assessment of Micro- and Nanoplastics in Allergy and Asthma"***

10:45 – 11:00 **Dr. Christian Diem,** KOF Swiss Economic Institute, ETH Zurich

- ***"Stress-testing systemic risk in food supply networks"***

11:00 – 11:15 **Prof Wang Zhen,** NPU, Xian, Ordinary Member, Class IV - Natural Sciences, European Academy of Sciences and Arts

- ***„In view of game theory: how humans make decision with humans vs machines?"***

11:15 – 11:30 **Andrea Francesco Castelletti,** Politecnico di Milano, Director Euro-Mediterranean Center on Climate Change, Division Director Technologies for Climate Transition, European Institute on Economics and the Environment

- ***"Climate Intelligence: Toward an AI-Based Epistemology of Weather and Climate Extremes"***

11:30 – 11:45 **Dr. Stefan Piel,** AI Product Management, UBS Switzerland AG, Zurich

- ***"Off Is Not a Switch. Responsible AI Adoption in Regulated Environments"***

11:45 – 12:00 **Prof.Ioannis Athanasiadis,** Chair of Artificial Intelligence at Wageningen University & Research (WUR), Netherlands

- ***"Artificial Intelligence for agricultural sciences - Challenges and opportunities"***

12:00 – 13:00 Extended coffe break

13:00 – 13:15 **Assoc. Prof. Nikolaos Tziolas,** Department of Soil, Water, and Ecosystem Sciences, Institute of Food and Agricultural Sciences — UF/IFAS University of Florida, USA

- ***"Conversational AI for Earth Observation in Support of Farmer-Centric Decision-Making."***

13:15 – 13:30 **Prof Em. Yannis Phillis,** Technical University of Crete, Greece; Ordinary Member, Class VI – Technical and Environmental Sciences, European Academy of Sciences and Arts

- ***"Aggregation of complex systems indicators and sustainability"***

13:30 – 13:45 **Prof. Monica Riva,** Politecnico di Milano (POLIMI), Italy, Department of Civil and Environmental Engineering; Dean Class IV, European Academy of Sciences and Arts

- ***"The use of AI for the reconstruction and analysis of aquifers"***

13:45 – 14:00 **Prof. Ronald Corstanje,** Cranfield University (UK), Cranfield Environment Centre

- ***"Advanced data analytics on complex systems; generating insights from nature to solutions to our current challenges"***

14:00 – 14:15 **Thomas Cherico Wanger Guerrero,** Sustainable Agricultural Systems & Engineering Laboratory, School of Engineering, Westlake University, China

- ***"Transforming Food Systems - Opportunities from Environmental Monitoring"***

14:15 – 14:45 Coffee break

14:45 – 15:00 **Vladan Devedzic,** Miodrag Mihaljevic, Mirjana Ivanovic, Serbian Academy of Sciences and Arts (SASA)

- ***"Quo vadis, education, in the AI era? "***

15:00 – 15:15 **Dr. rer. nat. Matevž Vremec,** Department of Artificial Intelligence and Digital Technologies,Alma Mater Europaea University, Maribor, Slovenia; Department of Earth Sciences, University of Graz, Austria

- ***„From Reactive to Proactive Groundwater Management: AI-Driven Monitoring and Forecasting"***

15:15 – 15:30 **Dr Elma Dervic,** Postdoctoral Fellow, Complexity Science Hub Vienna, Medical University of Vienna, Austria

- ***"AI and Complex Network Approaches to Mapping Human Disease Trajectories Across the Lifespan"***

15:30 – 15:45 **Teodoro Criscione,** Postdoctoral Fellow, Complexity Science Hub, Vienna, Austria

- ***Complexity, Networks, and Food Security: Measuring Cyclicity in a Kenyan Community Currency***

15:45 – 16:00 **Prof. Dr.DDr.h.c. Klaus Mainzer,** President of the European Academy of Sciences and Arts, TUM-Emeriti of Excellence, Munich

- ***Complex Systems and AI: From Foundation to Innovation***

16:15 – 16:30 **Prof. Youshan Zhang,** Professor at the School of Artificial Intelligence, Chuzhou University, China

- ***Robust Stem-Cutting-Point Localization for Embodied Intelligence Grape Harvesting Robots***

16:30 – 17:30 Final remarks

**Prof. Dr. Ioannis Liritzis, Vice President, EASA**

**Prof. Dr. Klaus Mainzer, President, EASA**

Discussion