



# ONLINE WORKSHOP: AI FOR SUSTAINABILITY

[sustainability-ai.org](https://sustainability-ai.org)

 **27-28 March 2025**

 **09:00 – 12:00 CET**

 [Online Event](#)

 **Information:** [sustainability-ai.org/workshop1.html](https://sustainability-ai.org/workshop1.html)



Join us for a **two-day** international online event on **AI-driven sustainability solutions!** Researchers and students will share **innovative approaches** in **climate resilience, smart water management, IoT-based monitoring, and AI-powered environmental projects.**

- ◆ **Study Group Presentations** - Get involved in ongoing research!
- ◆ **Talks** - Learn about AI sustainability applications
- ◆ **Project Showcases** - Real-world AI and IoT solutions
- ◆ **Networking & Collaboration** - Connect with global experts & researchers

## 27 March 2025

- **09:00 – 09:15 Welcome & Opening Remarks**, (*SustAInability AI*), **Keynote: AI for Environmental Monitoring & Sustainability**
- **09:15 – 09:35 CompostLink Project – AI for Food Waste Management**, **Chumvisotdaroth Som** (Paragon IU)
- **09:35 – 09:55 Understudied Influences in Climate Systems – Cloud Feedback Loops & Water Vapor**, **Katharina Krohm** (SRH University Heidelberg)
- **09:55 – 10:15 Optimizing Solar Panel Maintenance with Reinforcement Learning**, **Tariq Aziz** (University of Central Asia)
- **10:15– 10:35 Green Cups: AI & Digital Tools for Circular Economy**, **Sokleng Ry & Sovandara Phallim** (Paragon International University)

### Break

- **11:00 – 11:20 AI for Smart Farming & Crop Disease Prediction**, **Edward V. Maningo** (Paragon International University)
- **11:20 – 11:40 "WasserKunst Weschnitz": AI, Art & Water Sustainability Education**, **Ulrike Gayh** (SRH University Heidelberg)
- **11:40 – 12:00 | Talk: Monitoring Environmental Changes using IoT Systems**  
**Speaker: Enis Yazıcı, Nikhil Kumar, Mohammadfazel Pourmohammadi** (SRH University Heidelberg)

## 28 March 2025

- **09:00 – 09:10 Opening & Recap of Day 1**
- **9:10 – 09:30 Predicting Pollutant Accumulation in Water due to Extreme Weather Events**, **Ulrike Gayh** (SRH University Heidelberg)
- **09:30 – 09:50 AI-Powered Autonomous Reforestation – Project TreeStrike**, **Jasper Golembiewski** (SRH University Heidelberg)
- **09:50 – 10:10 AI & AR/VR for Education & Training**, **Aditi Das** (NSB Group, Hamburg)
- **10:10 – 10:30 Summer School in Heidelberg - Announcements**

### Break

## 11:00 – 12:00 | Study Group Presentations

- **AI for Climate Change Resilience** (*Dr. Ayman Aljarbough, UCA*)
- **Data-Driven Water Management in Smart Cities** (*Ulrike Gayh, SRH*)
- **Project TreeStrike** (*Jasper Golembiewski, SRH*)
- **Embedded Systems for Sustainability** (*Enis Yazıcı, SRH*)
- **Physics for a Sustainable Future** (*Enis Yazıcı, SRH*)
- **Quantum Computing & AI** (*Enis Yazıcı, SRH*)