

IAMES2024

May 29-31

3rd IFAC workshop on Integrated Assessment Modeling for Environmental Systems

Invitation to joint seminars between universities, enterprises and public bodies

Campus di Savona, Via A. Magliotto 2, Aula Magna (AN1)

IAMES 2024 (<https://iames.unige.it/>) is an international conference that aims to discuss how automation and systems engineering can increase environmental and energy sustainability. Three events are organized within IAMES in which researchers, companies, and members of the public are involved in panel discussions, one for each day of the workshop, in order to facilitate networking among different actors and to share experiences and best practices in three main fields: natural resource management, sustainable energy and electric mobility, and natural and technological risk assessment and management.

Participation in these three events (held exclusively in English) is free of charge, but reservations are required due to the limited capacity of the rooms by filling out a registration form ([Form](#)) or by writing to:

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Detailed information on the program and speakers for these events can be found in the next page.



SUSTAINABLE RESOURCES MANAGEMENT

Wednesday May 29, 14:30 - 16:00

The goal is to take an in-depth look at sustainability and then focus on water resource management. Companies, government agencies and research centers will provide their insights into decision-making tools used internationally.

SUSTAINABLE ENERGY

Thursday May 30, 9:00 - 11:00

Government agencies, companies and research centers will provide insight into the issues to be addressed in the sustainable management of smart power grids, electric vehicles and sustainable energy districts.

RISK MANAGEMENT AND SUSTAINABILITY

Friday May 31, 9:00 - 11:00

The goal is to explore the topic of sustainability and then focus on water resource management. Companies, government agencies and research centers will provide their insights into decision-making tools used internationally.

DETAILED PROGRAM

Wednesday May 29 – Sustainable resources management

- 14:30 - 14:40 IAMES Opening:** Marco Testa (Delegate of the Rector for Savona Campus); Ronald van Nooijen (Chair of IFAC CC6-Bio- and Ecological Systems); Marialuisa Volta (Chair of IFAC TC 6.3- Modelling and Control of Environmental Systems); Michela Robba (Chair of IAMES 2024)
- 14:40 - 14:55 Plenary:** Roadmap of Italian Universities to Sustainability: the case of Genoa University. Michela Gallo (National coordinator of the Working Group on Climate Change of the Italian Network of Sustainable Universities)
- 14:55 - 15:40 Plenary:** Changing climate and technology reshape the future of African hydropower. Andrea Castelletti (Polytechnic of Milan)
- 15:40 - 16:00 Industrial Keynote:** Process flexibility and environmental sustainability towards REIIs' decarbonization: two European case studies. Luca Moreschi (STAM)

Thursday May 30 – Sustainable Energy

- 9:00 - 10:00 Plenary:** Distributed Optimization in a Renewable-rich Grid Edge. Anuradha Annaswamy (Massachusetts Institute of Technology)
- 10:00 - 10:15 Industrial Keynote:** Information Technology supporting decision-making in energy distribution. Antonio Iavarone (Head of Digital Innovation at IREN Group)
- 10:15 - 10:30 Industrial Keynote:** Energy-related controls for electric vehicles. IVECO; Alessio Canepa (Electrification Technologies - Head of Simulation & Controls); Gianluca Donato (Electrification Technologies - Head of Energy Eco-system)
- 10:30 - 10:45 Industrial Keynote:** Training and technological transfer for sustainable energy: synergies between University and companies. Elisabetta Arato (President Innovation Pole on Energy, Environment and Sustainable Development)

Friday May 31 – Risk Management and Sustainability

- 9:00 - 9:45 Plenary:** On-the-field data collection and numerical wildfire simulation for risk management of firefighting activities. Emanuele Gissi (Italian Fire and Rescue Service, Italy)
- 9:45 - 10:00 Plenary keynote:** Natural and Technological risk assessment and management: the experience of CIMA Research Foundation. Eva Trasforini (CIMA Research Foundation)
- 10:00 - 10:15 Industrial Keynote:** Innovation and technological transfer for risk management and security. Georgia Cesarone (President of START 4.0 National Competence Center on security and optimization of strategic infrastructures)
- 10:15 - 10:35 Industrial Keynote:** Security and ICT in risk management. START 4.0
- 10:35 - 11:00 Plenary Keynote:** Models as maps: how integrated assessment tools can be used to support decision making. Fabian Wagner (Dean for Capacity Development and Academic Training, IIASA-International Institute for Applied Systems Analysis)