

Special session on Digitalization, Artificial Intelligence and Related Technologies for Energy Efficiency and GHG Emissions Reduction in Industry

Overview

The industrial sector, particularly energy and GHG-intensive industries, faces immense challenges in improving their economic and environmental performance. The adoption of digitalization, artificial intelligence, and related technologies presents a promising approach to address these challenges. This special session aims to advance knowledge and development of these technologies in targeted industries, fostering collaboration among academics, research labs, IT providers, and process industry stakeholders. The session will discuss the opportunities and barriers to the adoption of digitalization technologies, focusing on enhancing energy efficiency and reducing GHG emissions in the process industries.

The session will be held in Unicamp, São Paulo (Brazil) as part of the [Energy Informatics.Academy Conference 2023](#) (EIA 2023).

Organized by: [IEA IETS Annex Task XVIII: Digitalization, Artificial Intelligence and Related Technologies for Energy Efficiency and GHG Emissions Reduction in Industry](#)

Topics

- Case studies showcasing the application of digitalization in improving energy efficiency and reducing GHG emissions in the industry
- Methods and applications of digital technologies (e.g., digital twins) in industry sectors
- Barriers, incentives, and business models for the adoption of digitalization technologies in energy-intensive industries
- Simulations and modeling to investigate stakeholders' adoption of digitalization strategies in the industry
- Data collection, availability, quality, and use in promoting digitalization and its impact on energy efficiency and GHG emissions reduction in targeted sectors
- Other related topics

Organizing Committee

Mouloud Amazouz (Natural Resources Canada, Canada)

Michelle Levesque (Natural Resources Canada, Canada)

Zheng Grace Ma (University of Southern Denmark, Denmark)

Important Dates

- Paper submission deadline: **June 30, 2023**
- Notification of acceptance: August 5, 2023
- Conference dates: December 6-8, 2023
- Camera-ready paper due: September 15, 2023
- Registration deadline: September 31, 2023

Please check the conference webpage for the details: <https://www.energyinformatics.academy/eia-2023-conference>