International Winter School on:

"AI-aided Methods for Multiscale Exergy Analysis of Large Complex Systems"

Varna, Bulgaria
Bucharest, Romania

13-17 November 2023

Winter School Aim and Theme

The aim of the Winter School is to offer a holistic approach to the modelling, analysis, optimization and re-engineering of large complex systems and improvement of their energy efficiency based on a multiscale approach.

The theme of the Winter School is to apply Exergy Analysis methods for the improvement of energy efficiency and the minimization of environmental impact of different systems starting from processes and equipment, large scale facilities up to regional and national economic systems. ***The systems that will be studied include Heat Exchangers, Fuel Cells, Batteries, Boilers, Solar Thermal Installations, District Heating Systems, Internal Combustion Engines, Maritime Vessels and National Economies.***

Members of Winter School Committee

  - ➢ *Prof. Eden Mamut, PhD, University of Bucharest, Romania*
  - ➢ *Prof. Ioan Stamatin, PhD, University of Bucharest, Romania*
  - ➢ *Assoc. Prof. Galina Ilieva, PhD, Technical University of Varna, Bulgaria*
  - ➢ *Cornelia Nichita, PhD, University of Bucharest, Romania*

Tentative program and schedule

	Monday November 13, 2023	Tuesday November 14, 2023	Wednesday November 15, 2023	Thursday November 16, 2023	Friday November 17, 2023
09:00 – 13:00	Opening – welcome address	Data Centers	Exergy Analysis 2	ExA of Heat Exchangers	ExA of Maritime Vessel
	Exergy Analysis 1	AI in Maritime Engineering	Exergy Analysis 2	ExA of Heat Exchangers	ExA of Thermal Plant
	Exergy Analysis 1	AI in Maritime Engineering	ExA of Internal Combustion Engine	Fuel Cells & Batteries	ExA of National Economy
	Multiscale 1	Expert Energy Systems	ExA of Internal Combustion Engine	Fuel Cells & Batteries	ExA of National Economy
					Closure

The application form may be accessed at the following link:

Registration link