

## Symposium on Sustainable Energy Systems

**Chair:** Clito Afonso

**Location:** B027

### **Session I (27th June, 10:30h-13:00h)**

Opening Speaker (10min + 5min discussion)

Clito Afonso, Chair of the Symposium on Sustainable Energy Systems.

Invited Speaker (20min + 5min discussion)

Eduardo de Oliveira Fernandes, Emeritus Professor of the University of Porto

Topic: Sustainable Cities, People and Built Environment

Invited Keynote Speaker for Workshop I (20min + 5min discussion)

Adelio Mendes, Full Professor (FEUP), Senior Researcher and Coordinator at LEPABE

Topic: "Emerging research pathways for Sustainable Energy Systems"

Oral presentation of abstracts (10min + 5min discussion) - Session Moderator: Clito Afonso

- Micael Simões, Gil Sampaio, André Madureira and Ricardo Bessa, "Monitoring and predictive control of LV networks".
- José Gouveia, Carlos Moreira and João Peças Lopes, "Grid forming inverters integration in islanded power systems with low synchronous inertia"
- Justino Rodrigues, Carlos Moreira and João Peças Lopes, "Smart transformers - enabling power-frequency regulation services for hybrid AC/DC networks".
- Shabnam Pesteh, Hamed Moayyed and Vladimiro Miranda, "Robust state estimation in power systems with generalized correntropy interior point method (GCIP)".
- Kashif Mushtaq, Asad A Zaidi and Adelio Mendes, "Impact of flow-fields on the performance of vanadium redox flow battery".

### **Session II (27th June, 14:30h-16:30h)**

Invited Keynote Speaker for Workshop II (20min + 5min discussion)

Vitor Leal, Assistant Professor, Director EASSE, MIT Portugal Program, University of Porto

Topic: "Emerging research pathways for Sustainable Energy Systems"

Oral presentation of abstracts (10min + 5min discussion) - Session Moderator: Vitor Leal

- Kamel Mohamed Rahla, Luis Bragança and Ricardo Mateus, "How can circular economy be implemented in residential buildings? – An exploratory research.
- Arsenio Mindu, Jo Capece, Armando Oliveira and Rui Araujo, "Renewable energies policies impact in Mozambique".
- Fátima Lima, Paula Ferreira and Vitor Leal, "The relevance of household and sociodemographic factors on household energy and health expenditures".

- Daniela Padrino, Eduardo de Oliveira Fernandes and Clito Afonso, “Energy rehabilitation measures in historic buildings from Portugal: Application in Porto's Historic Center”.
- Rebeka Maria Sotero Silva, Ana Paula de Oliveira Medeiros, Antonio Rodrigues Albuquerque Filho, Beatriz Nascimento Ko Fontenele and Daniel Barboza Guimarães, “Willingness to pay and consumers’ ecological behavior: An applied study on the green building field”. (Oral + Poster)
- Nabeel Ahsan, Kashif Mushtaq and Asad A. Zaidi, “Numerically simulated performance assessment for integration of PEM Fuel Cell Stack into an automobile”.