Dear colleagues,

We would like to invite you to submit a paper to the Thematic Track on **Artificial Intelligence in Power and Energy Systems (AIPES)** of **EPIA 2024**, to be held **Viana do Castelo, Portugal between September 3rd-6th, 2024**.

Important Deadlines:

Deadline for full paper submission: 30th April, 2024

Notification of acceptance: 15th June, 2024

Camera-Ready papers: 15th July, 2024

Conference: 3rd-6th September 2024

Submissions:

AIPES welcomes full length papers (of up to 12 pages) and also short papers (up to 6 pages), demonstrating practical applications. All papers should be submitted in PDF format through the EPIA 2024 EasyChair submission page.

Authors should consult Springer's authors' guidelines and use their proceedings templates, either for LaTeX or for Word, for the preparation of their papers. Springer encourages authors to include their ORCIDs in their papers. In addition, the corresponding author of each paper, acting on behalf of all of the authors of that paper, must complete and sign a Consent-to-Publish form. The corresponding author signing the copyright form should match the corresponding author marked on the paper. Once the files have been sent to Springer, changes relating to the authorship of the papers cannot be made.

Accepted papers will be included in the conference proceedings (a volume of Springer's LNAI-Lecture Notes in Artificial Intelligence), provided that at least one author is registered in EPIA 2024 by the early registration deadline. EPIA 2024 proceedings are indexed in Thomson Reuters ISI Web of Science, Scopus, DBLP and Google Scholar.

Each accepted paper must be presented by one of the authors in a track session.

Scope:

The Thematic Track on Artificial Intelligence in Power and Energy Systems aims at providing an advanced discussion forum on recent and innovative work on the application of artificial intelligence approaches in the field of power and energy systems, including agent-based systems, data-mining, machine learning methodologies, forecasting and optimization.

Submission Topics:

- Agent-based Smart Grid Simulation
- Big Data Applications for Energy Systems
- Coalitions and Aggregations of Smart Grid and Market Players
- Consumer Profiling
- Context Aware Systems
- Data-Mining Approaches in Smart Grids
- Decision Support Approaches for Smart Grids
- Demand Response Aggregation
- Demand Response Integration in the Market
- Demand Response Remuneration Methods
- Electric vehicles
- Electricity Market Modelling and Simulation
- Electricity Market Negotiation Strategies
- Energy Resource Management in Buildings
- Information technology applications
- Innovative Demand Response Models and Programs
- Innovative Energy Tariffs
- Integration of Electric Vehicles in the Power System
- Intelligent Approaches for Microgrid Management
- Intelligent Home Management Systems
- Intelligent methods for Demand Management
- Intelligent Resources Scheduling
- Intelligent Supervisory Control Systems
- Knowledge-based approaches for Power and Energy Systems
- Load Forecast
- Market Models for Variable Renewable Energy
- Multi-Agent Applications for Smart Grids
- Multi-Agent Systems in Power and Energy Systems
- Other Artificial Intelligence-based Methods for Power and Energy Systems
- Phasor Measurement Units Applications
- Real-time simulation
- Reliability, Protection and Network Security Methods
- Renewable Energy Forecast using Computational Intelligence
- Semantic communication and data
- Smart Sensors and Advanced Metering Infrastructure

Thematic Track Organizers:

- Zita Vale - Polytechnic of Porto (Portugal)
- Tiago Pinto – Universidade de Trás-os-Montes e Alto Douro (Portugal)
- Pedro Faria - Polytechnic of Porto (Portugal)
- Bo Norregaard Jorgensen - University of Southern Denmark (Denmark)