



## SPECIAL SESSION VI

### The next generation of Smart Grids-based Multi-Energy Systems raising ICT cutting-edge solutions (IntelliGrid)

ORGANIZED BY

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Leading-edge ICT technologies drive sustainability in energy. Smart Grid, using Machine Learning and Deep Learning techniques, tackles global energy challenges. Algorithms enable data-driven energy analysis, covering demand forecasting, load balancing, and peak detection. Simulation techniques enhance energy management policies. IoT deployment ensures grid stability, generating Big Data. IoT tools empower effective energy monitoring and regulation. Electric mobility and smart grids collaborate, enhancing energy market engagement. Widespread ICT integration is crucial for Smart Multi-Energy Systems (SMESs). The goal is holistic management of energy resources, including renewables. In this frame, the special session aims to become the focal hub where researchers of all cutting-edge fields of ICT (e.g., Artificial Intelligence, Big Data, Internet-of-Things, Agent-based Modelling, etc.) can investigate and discuss the new opportunities in adopting such innovative solutions in the domain of Smart Grids-based Multi-Energy Systems.