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TOWARDS THE NEXT GENERATION OF SMART GRIDS-BASED MULTI-ENERGY SYSTEMS RAISING ICT CUTTING-EDGE SOLUTIONS (INTELLIGRID)

ORGANIZED BY

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Cutting-edge ICT technologies are revolutionizing sustainability in the energy sector. The integration of Smart Grid systems with advanced Machine Learning and Deep Learning techniques addresses global energy challenges by enabling sophisticated, data-driven energy analysis. These technologies facilitate demand forecasting, load balancing, and peak detection, while simulation techniques refine energy management policies for greater efficiency. The deployment of IoT devices ensures grid stability and generates valuable Big Data, empowering precise energy monitoring and regulation. Furthermore, the synergy between electric mobility and smart grids enhances engagement within the energy market, driving advancements in energy resource management. The widespread adoption of ICT solutions is pivotal for the development of Smart Multi-Energy Systems (SMESs), enabling holistic management of energy resources, including renewable sources.

Within this context, the special session aims to establish itself as a central hub for researchers across diverse ICT domains—including Artificial Intelligence, Big Data, Internet of Things, and Agent-based Modelling—to explore and discuss innovative solutions for Smart Grid-based Multi-Energy Systems. This forum will foster the exchange of ideas and promote advancements in leveraging ICT technologies for a sustainable energy future.

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