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Message from the Organizers

Simulation is an essential tool to manage the complexity of modern energy systems and to define effective solutions for planning, designing, and operating energy systems. Energy systems are expected to include electricity, gas, and heat networks – to maximize the use of all available forms of energy – and to include storage capacity. The distributed nature of new resources (generation and storage) and the participation of loads in energy management require fast, reactive control and protection. In this context, it is expected that the monitoring and control of modern energy systems will be characterized by the distribution of functions. At the same time, a large use of communication media is envisioned. The interactions between continuous dynamics and discrete events are becoming more relevant due to the increasing number of controllable devices (e.g., power electronic converters in power grids) and the use of networked control systems. In addition, power systems are increasingly driven by market competition, and the impact on system operation should also be considered. In this context, several research groups have developed modeling and simulation solutions to address these challenges, and they have disseminated their software using an open-source approach. The workshop will address all aspects related to the use and development of open-source tools for power and energy systems modeling and simulation. The main objective of the workshop is to foster discussion on these topics among experts from academia, industry, and utilities.

Out of all the submitted papers, 12 papers were accepted that have been carefully selected during a quality-controlled review process supported by the OSMSES 2023 program committee. In addition to that, 6 tutorials as well as one keynote presentation and a panel about the usage of open-source approaches in energy systems are also included in the program. They will be presented in 11 different sessions during the workshop.

Moreover, we want to express our special thanks to the IEEE Industrial Electronics Society (IES) for supporting OSMSES 2023 and we thank the program committee for their excellent service, most importantly, we thank the authors and presenters for their thoughtful contributions to the advancement of this important field.

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