Preface

International Conference on Advanced Electrical and Energy Systems (AEES 2020) were held online during August 18-21, 2020. These conferences addressed diverse topics related to recent trends and progress made in the field of advanced energy systems.

Advanced electrical and energy systems have been the main topics in research and development at the academic, industry and business level in recent year. It enables renewable generation, distributed generation, energy storage, transmission, distribution and demand management.

The benefits of advanced electrical and energy systems include the enhanced reliability and resilience, higher intelligence and optimized control, decentralized operation, higher operational efficiency, more efficient demand management, and better power quality. However, all these prospective transformations also bring with them numerous challenges and opportunities. Concerns relating to global warming, caused by green house gas (GHG) emissions from various sources, have raised general awareness among the governments and the public of the need to produce energy, in particular energy in the electrical form, from renewable energy sources that do not produce GHGs.

The papers presented at these conferences and included in these Proceedings cover a wide variety of topics on various aspects of advanced energy sources of the future, the focus of these series of conferences held in August 2020. We hope that they will offer the readers a good opportunity to explore the state-of-the art developments and future directions of research on these topics.

On behalf of Conference Committees

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