

Preface

We are so delighted to announce that 2021 International Conference on Power System and Energy Internet (PoSEI 2021) was successfully held during April 16-18, 2021 in Chengdu, China. PoSEI 2021 is to bring together innovative academics and industrial experts in the field of Power System and Energy Internet to a common forum. The primary goal of the conference is to promote research and developmental activities in Power System and Energy Internet and another goal is to promote scientific information interchange between researchers, developers, engineers, students, and practitioners working all around the world. The conference will be held every year to make it an ideal platform for people to share views and experiences in Power System and Energy Internet and related areas.

About 80 participants from academic, high-education institutes and other organizations of China, Italy, Spain, Egypt, Jordan and Syria took part in the Conference. The conference model was divided into two sessions, including oral presentations and keynote speeches. In the first part, some scholars, whose submissions were selected as the excellent papers, were given 15 minutes to perform their oral presentations one by one. Then in the second part, keynote speakers were each allocated 30-45 minutes to hold their speeches.

We were very honored to have Prof. Pierluigi Siano from University of Salerno, Italy as our Chairman and keynote speaker. His research activities are centered on demand response, on energy management, on the integration of distributed energy resources in smart grids, on electricity markets and on planning and management of power systems. The second keynote speakers, Prof. Antonio Moreno-Muñoz, from Universidad de Córdoba, Spain. His research focuses on Smart Cities, Smart Grids, Power Quality, Internet of energy. And then we had Prof. Zita Vale, from Polytechnic of Porto, Portugal. Her main interests regard the application of Artificial Intelligence Techniques to Power systems, including Knowledge based systems, Multi-agent systems, Neural Networks, Meta-heuristics, Optimization, Machine Learning, and Knowledge Discovery Techniques. We also invited Prof. Fei Wang, from North China Electric Power University, China as our keynote speaker. His research interests included renewable energy power, electricity price and electricity load forecasting, demand response and electricity market, smart grid, microgrid, and integrated energy systems. Prof. Qi Li, from Chongqing University, China. Our finale keynote speakers, Prof. Yanbo Chen, from North China Electric Power University, China. The title for speech: *State estimation of integrated energy system*. With the rapid development of IES, IES-SE needed extensive attention, and this paper provided a comprehensive survey about it.

We are glad to share with you that we received lots of submissions from the conference and we selected a bunch of high-quality papers and compiled them into the proceedings after rigorously reviewed them. These papers feature following topics but are not limited to: Architecture and Design of Energy Internet, Energy control and storage, Energy network, Smart Energy, Power Electronics and Power Drives and other related topics. All the papers have been through rigorous review and process to meet the requirements of International publication standard.

I would like to express special gratitude to members of the conference committee and organizers of the conference. I would also like to thank the reviewers for their valuable time and advice which helped in improving the quality of the papers selected for presentation at the conference and for publication in the proceedings. Finally, I want to thank the authors, the members of the organizing committee, the reviewers, the chairpersons, sponsors, and all other conference participants for their support of PoSEI 2021.

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