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Preface

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Preface

Wenzhe Tang

Editor, Proceedings of the Sixth International Conference on Energy Engineering and Environmental Protection (EEEP 2021)

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EEEP (International Conference on Energy Engineering and Environmental Protection) is an annually held conference for all researchers home and abroad since 2016, aiming to provide a good platform for scholars and researchers in the field of energy and environmental protection to discuss the latest developments and achievements, work out good solutions, and make contributions.

The Sixth International Conference on Energy Engineering and Environmental Protection (EEEP2021) was planned to be held in Sanya, China on November 16-18, 2021. Due to the epidemic of COVID-19, the event had to be changed from onsite to online during November 16-17, 2021 for academic exchanges & discussions.

There were about 90 experts and scholars from 7 countries and regions, including China, Canada, Italy, Australia, Spain, South Africa and India, attending EEEP2021. Conference program was divided into 3 sessions: keynote speeches, oral presentations and poster presentations. We greatly appreciate Prof. Wenzhe Tang from Tsinghua University, who presided over the conference, and all participants for attending and sharing!

We are honored to invite 8 experts to give the impressive keynote speeches: Prof. Marc Rosen from Ontario Tech University, Canada; Prof. Fushuan Wen from Zhejiang University, China; Prof. Alam Md Mahbub from Harbin Institute of Technology, Shenzhen, China; Prof. Dongsheng Li from Shantou University, China; Prof. Farhad Shahnia from Murdoch University, Australia; Prof. Jin Su Jeong from Universidad de Extremadura, Spain; Prof. Qiang Wang from Henan University, China and Prof. Benedetto Nastasi from Sapienza University of Rome, Italy.

Following the keynote speakers, 14 scholars made oral presentations respectively in the afternoon. And 10 poster presentations came after it. Reporters shared their latest research findings and audiences were actively involved in discussions.

The conference proceedings consisted of 120 accepted articles selected from 223 submissions, including a special session on *Intelligent Integrated Energy Systems*.

We would like to express our gratitude to the reviewers of these manuscripts, who provided their time and expertise to review papers and facilitate the smooth running of EEEP. We are extremely grateful for organizers, technical program committee and editors and extend our most sincere thanks to all the authors for their excellent contribution and work and participants for their active attending. Our sincere thanks also go to the IOP Publishing editors and managers for their helpful cooperation during the preparation of the proceedings.

On behalf of the Organizing Committee of EEEP 2021.

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Special Session on *Intelligent Integrated Energy Systems*

The proceedings of Sixth International Conference on Energy Engineering and Environmental Protection (EEEP2021) included a special session on ***Intelligent Integrated Energy Systems*** with 6 full papers after peer review. Details can be found as below:

Session Title: Intelligent Integrated Energy Systems

Aim and Scope: Due to the rapid development of information and communication technology (ICT) and artificial intelligence (AI), as well as the energy transformation, the control and management of energy systems has been changed. A great deal of new technologies, new control algorithms, new models, new problems, and new business modes emerge, which requires intelligence in the systems.

This session aims to focus on the intelligent integrated energy systems. The submissions are encouraged to focus on but not limited to intelligent control and management algorithms, fault diagnosis and efficiency analytics, artificial intelligence algorithms, big data analytics, cloud computing, internet of things, mobile internet, distributed control, and digital twins with their application to integrated energy systems, energy internet, electrical internet of things, and other energy systems.

Acknowledgements
This special session was organized by Dr. Bowen Zhou (College of Information Science and Engineering, Key Laboratory of Integrated Energy Optimization and Secure Operation of Liaoning Province, Northeastern University, Shenyang, 110819, China) and Dr. Guangdi Li (College of Information Science and Engineering, Key Laboratory of Integrated Energy Optimization and Secure Operation of Liaoning Province, Northeastern University, Shenyang, 110819, China).

Introduction to organizers

Dr. Bowen Zhou received the BSc and MSc degrees from Wuhan University, Wuhan, China, and the PhD degree from Queen's University Belfast, Belfast, UK, all in electrical engineering. He is currently an associate professor with College of Information Science and Engineering, Northeastern University, and with Key Laboratory of Integrated Energy Optimization and Secure Operation of Liaoning Province, Northeastern University. He is also the Vice Dean of School of Future Technologies, Northeastern University. His research interests include power and energy system operation and control, electric vehicles, vehicle to grid, energy storage, demand response, renewable energy, and energy internet. He is the PI and Co-I of more than 20 government and industry sponsored projects. He has published more than 60 SCI or EI indexed papers. He is a member of IEEE PES China Transformers Committee, IEEE PES China Electric Vehicle Committee, and IEEE PES China PSOPE Committee. He is currently a member of IEEE, IET, IAENG, CSEE, CAA, and CCF. He is also a committee member of several international conferences and an active reviewer of some peer reviewed journals and international conferences.

Dr. Guangdi Li received the B.E.E degree from the College of Information Science and Engineering, Northeastern University, Shenyang, China, in 2013, and the Ph.D. degree in power electronics and electric drive from the College of Electrical Engineering, Zhejiang University, in 2020. He is currently a Postdoctoral Researcher with the College of Information Science and Engineering, Northeastern University, Shenyang, China. His current research interests include resonant DC-DC converters, control and modeling of grid-connected converters. He has published more than 10 SCI or EI indexed papers. He is a member of IEEE PES Intelligent Grid & Emerging Technologies Satellite Committee – China. He is currently a member of IEEE. He is also an active reviewer of some peer reviewed journals and international conferences.