

Preface

We are delighted to present the proceedings of the second edition of the 2017 European Alliance for Innovation (EAI) International Conference on Smart Grid Inspired Future Technologies (SmartGIFT). This conference brought together researchers, developers, and practitioners around the world who are leveraging and developing smart grid technology for a smarter and more resilient grid. The theme of SmartGIFT 2017 was “Smart Grid Inspired Future Technologies: A Smarter and More Resilient Grid.”

The technical program of SmartGIFT 2017 consisted of 27 full papers, including four invited papers in oral presentation sessions at the main conference tracks. The conference tracks were: Track 1—Communications, Networks and Architectures; Track 2—Smart Control and Operation; Track 3—Grid and Components; and Track 4—Data Management and Grid Analytics. Aside from the high-quality technical paper presentations, the technical program also featured two keynote speeches, one invited talk, and two technical workshops. The two keynote speeches were Dr. Barry Rawn from Brunel University of London, UK, and Dr. Ian Llewellyn from the Department for Business, Energy and Industrial Strategy, UK. The invited talk was presented by Prof. Anurag Srivastava from Washington State University, USA. The two workshops organized were the Improving the Robustness of Urban Electricity Network (IRENE) of a JPI Urban Europe and Wireless Communications and Networking Technologies for Connected Smart Grids (WCSG). The IRENE workshop aimed to address the new dimension of threats in critical infrastructures through demonstration of IRENE methodologies and approaches. The WCSG workshop aimed to gain insights into key challenges, understanding, and design criteria of employing wireless technologies to develop and implement future smart grids-related services and applications.

Coordination with the steering chairs, Imrich Chlamtac, Victor C.M. Leung, and Kun Yang, was essential for the success of the conference. We sincerely appreciate their constant support and guidance. It was also a great pleasure to work with such an excellent Organizing Committee team and we thank them for their hard work in organizing and supporting the conference. In particular, the Technical Program Committee, led by our TPC co-chairs, Dr. Jonathan Loo, Dr. Sandford Bessler, and Dr. Eng Tseng Lau, who completed the peer-review process of technical papers and created a high-quality technical program. We are also grateful to the conference managers, Barbara Fertilova for her support, and all the authors who submitted their papers to the SmartGIFT 2017 conference and workshops.

We strongly believe that the SmartGIFT conference provides a good forum for all researchers, developers, and practitioners to discuss all scientific and technology aspects that are relevant to smart grids. We also expect that the future SmartGIFT conference will be as successful and stimulating, as indicated by the contributions presented in this volume.

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