

## Preface

Special issue “Advances in Renewable Energy and Energy Efficiency Technologies”

This issue of the *Turkish Journal of Electrical Engineering & Computer Sciences* is dedicated to the latest achievements in renewable energy sources and energy efficiency. Renewable energy is very important for future generations since it has much lower environmental impact than traditional energy sources and these sources will never run out. Dependence of our society on coal, natural gas, and oil will be significantly reduced by wider deployment of renewables and more efficient usage of available energy. In spite of the numerous advantages of renewable sources, there are many challenges regarding their integration. Renewables are expected to be efficient and affordable, while their stochastic nature forces power utilities and system operators to seek new techniques for treating such uncertainty.

The papers selected for publication in this special issue deal with various topics in renewables and energy efficiency technology. Some of the topics presented in this issue are as follows: renewable energy integration in power systems; performance analysis of wind, solar, and hybrid sources; energy storage; efficiency of power system components; and control strategies for renewables.

We would like to thank all authors who submitted papers for this special issue. The selection process among 353 high quality papers was very competitive, and 34 of them were selected for publication.

### Guest Editors

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