The IEICE Transactions on Communications announces that it will publish a special section entitled "Special Section on Renewable Energy Research and Applications " in the January 2026 issue.

Currently, Japan is facing many challenges such as a major transition to green energy, the revitalization of the semiconductor industry, and a shift from gasoline-powered cars to EVs, making it essential to introduce renewable energy into the information and communications field. Development of digital technology to support these issues is also desired. Because of such reasons, we are planning to create a special feature to further promote research and development on future information and communication energy technologies.

1. Scope
This special section aims at timely dissemination of research in these areas. Possible topics include, but are not limited to:

- Energy Transformation from Renewable Energy System (RES) to Grid
- Novel Energy Conversion Studies for RESs
- Power Devices and Driving Circuits for RESs
- Control Techniques for RESs
- Artificial Intelligence and Machine Learning Studies for RESs and Applications
- Energy Savings for Power Electronics, Vehicular Technology, Electric Machinery and Control, etc.
- Smart grids and RESs
- Renewable Energy Systems in Smart Cities
- IoT for RESs
- Energy Management, VPP(Virtual Power Plant) and ERAB (Energy Resource Aggregation Businesses) for RESs
- Model based Design and Digital Twin for RESs

2. Submission Instructions
The standard number of pages is 8. The page charges are considerably higher for extra pages. Manuscripts should be prepared according to the guideline in the "Information for Authors." The latest version is available at the web site, https://www.ieice.org/eng/shiori/mokuji_cs.html. The term for revising the manuscript after acknowledgement of conditional acceptance for this special section could be shorter than that for regular issues (60 days) because of the tight review schedule.

This special section will accept papers only by electronic submission. Submit a manuscript and electronic source files (LaTeX/Word files, figures, authors’ photos and biographies) via the IEICE Web site https://review.ieice.org/regist/regist_baseinfo_e.aspx by February 28, 2025 (JST). Authors should choose the Special Section on Renewable Energy Research and Applications as a "Journal/Section" on the online screen. Do not choose [Regular EB].

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