



6th IEEE International Conference on Sustainable Energy and Future Electric Transportation (IEEE SeFet 2026)

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6TH IEEE SeFet 2026 Special Session

SS19: *Advances in Distribution Automation Systems for Sustainable Energy and Future Electric Transportation*

1. Introduction

The fast-changing power in distribution landscape, as a result of renewable integration, electric mobility and shifting customer behaviour patterns, demands intelligent, automated and resilient distribution networks. DAS are central for high reliability, operation efficiency and real time responsiveness of the system. With widespread application of advanced sensors, IoT, communication networks and data driven decision making tools, DAS has evolved as an indispensable enabler for future sustainable and self-healing grids. This special session is devoted to the latest research breakthroughs, practical experiences, challenges, and opportunities in the field of Distribution Automation Systems (DAS) related to sustainable energy systems and electric transportation infrastructures.

2. Objectives of the Special Session

This special session intends to:

- Explore and showcase new technologies, systems, and frameworks for intelligent distribution automation
- Address automation practices that improve the reliability, resilience, and efficiency of the grid
- Promote cross-disciplinary studies integrating renewable energy systems, EV charging, and automated distribution
- Create a forum for academics, professionals, and experts to share and address DAS challenges, innovations, and best practices
- Facilitate the collaborative dissemination of information to aid the advancement of sustainable electric transport and intelligent energy systems.

3. Scope and Topics of Interest

- ❖ Distributed Energy Resources
- ❖ Demand Side Management
- ❖ Advanced Metering Infrastructure
- ❖ Advanced Computational Techniques
- ❖ Distribution System Load Flow
- ❖ Smart Energy Meter and Phasor Measurement Unit in Distribution System
- ❖ Communication Aspects in Distribution System
- ❖ Protection, Fault Prevention and Supply Restoration Aspects
- ❖ Electric Vehicles - in different roles
- ❖ Block Chain and Energy Trading

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All presented papers will also be considered for extended publication in the IEEE Transactions on Industry Applications or IEEE Industry Applications Magazine.