



IEEE Journal of Emerging and Selected Topics in Power Electronics

History of Special Issues

Sponsors: IEEE Power Electronics Society, IEEE Industry Applications Society

Last updated: June 2024

2013 (Volume 1)

Issue 1	<i>None</i>
Issue 2	<i>None</i>
Issue 3	<i>None</i>
Issue 4	Wind Applications – Part 1

2014 (Volume 2)

Issue 1	Wind Applications – Part 2
Issue 2	Advanced Control of Electric Motor Drives
Issue 3	Miniaturized Power Electronics Systems Transportation Electrification
Issue 4	Modeling and Control of Power Electronics for Renewable Energy and Power Systems

2015 (Volume 3)

Issue 1	Wireless Power Transfer
Issue 2	<i>None</i>
Issue 3	LED Drivers
Issue 4	Sustainable Energy Systems Integration

2016 (Volume 4)

Issue 1	Harmonics Stability and Mitigation in Power Electronics
Issue 2	Green Power Supplies
Issue 3	Wide Bandgap Power Devices and Applications
Issue 4	Resilient Microgrids

2017 (Volume 5)

Issue 1	Emerging Electric Ship MVDC Power Technology
Issue 2	Distributed Generation
Issue 3	Structured DC Microgrids
Issue 4	Power Electronics and Systems: Modeling, Analysis, Control, and Stability

2018 (Volume 6)

Issue 1	<i>None</i>
Issue 2	Power Supply on Chip
Issue 3	Asynchronous Interconnect and Generation Emerging Topics in Lighting
Issue 4	Predictive Control in Power Electronics, Electrical Drives, and Industrial Applications

2019 (Volume 7)

Issue 1	Transient Behavior of Multiscale Megawatt Power Electronic Systems
Issue 2	Resonant and Soft Switching Techniques with Wide Bandgap Devices
Issue 3	Modeling, Design, and Application of Next-Generation Power Components
Issue 4	<i>None</i>

2020 (Volume 8)

Issue 1	Modeling, Design and Applications of Next-Generation Power Components
Issue 2	Modeling, Topology, and Control of Grid-Forming Inverters Complex Vector Theory and its Applications in Power Electronic Systems
Issue 3	Topologies, Modeling Methodologies and Control Techniques for High-Frequency Power Conversion
Issue 4	Nonlinear Dynamics in Power Electronics-enabled Energy Systems

2021 (Volume 9)

Issue 1	Power Converters and Control Techniques for Very Fast Response Applications
Issue 2	Topology, Modeling, Control, and Reliability of Bidirectional DC/DC Converters in DC Microgrids
Issue 3	DC Protection
Issue 4	Design and Testing Methods of Power Electronics Components and Circuits
Issue 5	Sustainable Energy Through Power Electronics Innovations in Cyber Physical Systems
Issue 6	Recent Advancements of Power Electronics Technology and Applications Fault Tolerant Operation and Stability Enhancement of Power Electronics Dominated Grids

2022 (Volume 10)

Issue 1	Capacitively Coupled Power Conversion Systems Cybersecurity of Power Electronics Through Hardware Hardening
Issue 2	Commemorating 40 Years of WEMPEC, 1981-2021
Issue 3	Modeling and Analysis of Interaction Between Grids and Grid-Connected Power Electronics Converters in Distribution Networks
Issue 4	Smart Solid-State Transformers for AC/DC Hybrid Power Grids Emerging Applications of Power Electronics in Developing Economies
Issue 5	Failure Mechanisms, Fault Characterization, and Condition Monitoring of Power Electronics Components and Systems Power Electronics Systems for Aerospace Applications
Issue 6	Emerging Converter Topology, Operation, and Design Technologies Partial Power Conversion and Its Emerging Applications

2023 (Volume 11)

Issue 1	Emerging Topics of Power Electronics Interfaced Battery Energy Storage System
Issue 2	Integrated Control and Modulation for Electric Drives
Issue 3	Future of Power Electronics: Components, Circuits, and Systems
Issue 4	Emerging Topics of High-Frequency High-Power Density DC-AC Conversion Technologies
Issue 5	<i>None</i>
Issue 6	Machine Learning Techniques in Power Electronics

2024 (Volume 12)

Issue 1	Advanced Charging Technologies for Next-Generation Electric Vehicles
Issue 2	Power Electronics for Distributed Energy Resources
Issue 3	<i>None</i>
Issue 4	
Issue 5	
Issue 6	

