

14 ICEEE 2027

2027 14th International Conference on Electrical and Electronics Engineering

Co-sponsored by



Ankara, Türkiye

April 16–18, 2027

Special Session 3 Advanced Avionics Systems and Technologies

Modern aerospace platforms increasingly depend on integrated avionics systems that combine sensing, computation, communication, navigation, guidance, and control under stringent real-time, reliability, and safety requirements. This special session aims to bring together researchers and practitioners working on advanced avionics technologies, including embedded and real-time systems, FPGA/SoC-based implementations, sensor fusion, navigation, communication, flight control, fault tolerance, autonomous systems, and verification and validation. Particular emphasis is placed on system-level integration and practical implementations that bridge theoretical methods with real-world aerospace applications.

SESSION CHAIRS



Prof. Dr. Ali Sebetci

OSTIM Technical University
Department of Computer Engineering, Ankara, Turkey

SUBMISSION



Submit Online: <https://easychair.org/my/conference?conf=iceee20270>

Paper Templates:

Word: <https://www.iceee.org/instruct8.5x11x2.doc>

LaTeX: <https://www.iceee.org/ieee-latex-conference-template.zip>

IMPORTANT DATE



Submission Deadline:	December 1, 2026
Notification Deadline:	January 1, 2027
Camera-ready & Registration Due:	January 20, 2027

TOPICS OF INTEREST



- Embedded and Real-Time Avionics Systems
- FPGA/SoC-Based Avionics Architectures
- Sensor Fusion and Multisensor Systems
- Navigation, Guidance, and Control
- Avionics Communication Systems and Data Links
- Flight Control Systems
- Autonomous and Intelligent Aerospace Systems
- Fault-Tolerant and Safety-Critical Avionics
- Verification, Validation, and Certification of Avionics Systems
- Integrated Modular Avionics and System-Level Integration
- Hardware/Software Co-Design for Avionics
- Practical Avionics Implementations and Aerospace Applications

PUBLICATION



Accepted papers published in **IEEE Xplore**, indexed by **EI Compindex & Scopus**, subject to meeting IEEE's scope and quality standards.

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