



RADARCONF'27

2027 IEEE RADAR CONFERENCE

May 1-6, 2027 | Bengaluru, India

Sheraton Grand Hotel and Convention Centre,
Bengaluru Whitefield

IEEE Conf Record #71733

AEES
Bangalore Chapter

AEES

SUBMIT YOUR PAPER

CALL FOR PAPERS

Adaptive Waves, Resilient Skies: Global Innovations in Radar Technology

The Future of Sensing is Agile

The 2027 IEEE Radar Conference converges in Bangalore—India's space, defence, and aerospace heart—to redefine the boundaries of electromagnetic intelligence. As we transition into an era of congested spectrums and contested skies, RadarConf '27 serves as the global forge for technologies that are not just reactive, but proactive, cognitive, and resilient.

We invite pioneers from academia, industry, and R&D professionals to submit original research that aligns with our three strategic pillars:

The Three Strategic Pillars

01

SPECTRUM

The Cognitive Frontier

Harnessing Intelligence through Photonic, Quantum, and Integrated Sensing.

- **ISAC & Convergence:** Advanced ISAC waveforms, Full-Duplex systems, and Multi-User MIMO for joint sensing and 6G communications.
- **Quantum & Photonic Mastery:** Quantum illumination, entanglement-based sensing, and microwave photonic beamforming networks.
- **Intelligent Surfaces:** RIS-assisted radar architectures, Metamaterial-based RIS, and RIS for modern radome camouflage.
- **Cognitive Autonomy:** Self-optimizing radar resource management and autonomous multi-sensor surveillance swarms.

02

SPACE

Atmospheric & Orbital Dominance

Precision Sensing from Distributed Apertures to the Deep Cosmos.

- **Next-Gen Airborne Systems:** Shared-aperture multi-band radars, LPI Distributed MIMO, and airborne multi-static clusters.
- **The THz Frontier:** Ultra-wideband THz imaging, mmWave automotive radar, and high-frequency propagation modelling for planetary sensing.
- **Resilient Processing:** High-fidelity clutter modelling, Advanced STAP, and CFAR schemes for non-Gaussian, highly-cluttered environments.
- **Networked Sensing:** Multi-platform data fusion and collaborative sensing for orbital situational awareness.

03

SOVEREIGNTY

Global Security & Defense

Hardening the Skies through Electronic Warfare and Spectrum Resilience.

- **Advanced EW & Protection:** Cognitive ECM/ECCM, anti-jamming radar techniques, and high-power deception jammers.
- **LPI & Counter-LPI:** Advanced ELINT systems for LPI detection and counter-techniques for digital deception.
- **Sovereign Resilience:** Simultaneous Transmit and Receive (STAR) architectures, GaN MMIC advancement, and RIS for airborne surveillance.
- **Strategic Defense:** Multi-function RF systems, drone swarm detection, and AI/ML-driven target classification.



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IMPORTANT DATES

- Start of Paper Submission : July 29, 2026
- Tutorials/Workshop Proposals: Oct 31, 2026
- Paper Submission Deadline: Oct 31, 2026
- Notification of Acceptance: Jan 15, 2027
- Camera Ready Paper: Feb 15, 2027

Join us in Bangalore for an exciting week of radar innovation, collaboration, and technical excellence in one of the world's leading technology ecosystems.