RadarConf'26

2026 IEEE RADAR CONFERENCE

May 11-15, 2026 // Sheraton Phoenix Downtown, Phoenix, AZ

RADAR EXCELLENCE IN THE DESERT SUN

RADAR2026.IEEE-RADARCONF.ORG

CALL FOR PAPERS

IMPORTANT DATES

22 September 2025
Special Session Proposals Due

3 November 2025
Paper Submissions Due

1 December 2025
Tutorial Submissions Due

26 January 2026
Notification of Acceptance

9 March 2026
Final Paper Submission Due

The 2026 IEEE Radar Conference will be held in Phoenix, Arizona, USA, May 11-15, 2026. The Phoenix Metro and greater southwest region is a hot bed of radar activity. The Phoenix metro area is home to a number of US Department of Defense radar contractors and nearby universities.

The 2026 IEEE Radar Conference will be held at the Sheraton Phoenix Downtown, a short distance from the Phoenix Sky Harbor International Airport. Nearby restaurants and museums highlight the unique culture of the American Southwest. With 300 sunny days per year, Phoenix will shine light on an exciting week of radar excellence!

Original papers describing significant advances in radar technologies, systems, applications, and techniques are sought. Prospective authors should prepare a 4-6 page full paper (including supporting figures and citations) using the IEEE format. Papers should be submitted no later than 3 November 2025. Authors must present accepted papers in person at the conference for the paper to be archived in *IEEE Xplore®*; see the conference website for the full publication policy.

Particular topics of interest include, but are not limited to:

Emerging Radar Technologies:

- Cooperative, distributed, and multi-static radar systems (scheduling, networking, fusion)
- Cognitive radar
- Spectrum sharing & frequency agility
- Joint radar & communications
- Fully digital phased array radar
- Millimeter-wave / terahertz radar

Radar Systems & Applications:

- Innovative designs / missions for airborne, spaceborne & shipborne radar
- Imaging radar
- Active & passive radar
- Air traffic radar
- Over-the-horizon radar
- Automotive radar
- Multi-function radar / RF
- Sense & avoid radar
- Weather radar
- Medical / biomedical sensing

Radar Signal & Data Processing:

- STAP & adaptive processing
- MIMO
- Waveform & frequency agility
- Software-defined radar
- Sparsity-based techniques
- SAR / ISAR processing
- Digital beamforming & array processing
- Super-resolution techniques
- Detection & false alarm improvements
- Target tracking & fusion
- Classification & identification
- AI/ML techniques

Radar Phenomenology:

- Target & clutter modeling and estimation
- Atmospheric propagation
- Scattering phenomenology
- Foliage & ground penetration
- Multipath exploitation

Antenna Technology:

- Conformal / low-profile arrays
- Design for low sidelobe level
- Ultra wideband
- Metamaterials
- Multi-polarization
- Frequency-diverse arrays
- Dual/multi-band antennas & arrays
- Simultaneous multiple beams

Subsystems & Components:

- Novel & advanced architectures
- RF architectures for software-defined radar
- RF system-on-chip (RFSoC) & other transceiver technologies
- advanced components (e.g., GaN MMICs)
- real-time processing (e.g. FPGA, GPU, hybrid)
- T/R modules
- advanced receiver designs
- simultaneous transmit / receive (STAR) architectures