

CALL FOR PAPERS

CONFERENCE THEME
SMART TEST RANGE FOR NEXT GENERATION WEAPON SYSTEMS

ABOUT ICORT

Integrated Test Range, Chandipur, the premier Test Range of the country with state of-the-art systems and facilities is organizing the 5th International Conference on Range Technology (ICORT-2027). This Conference serves as a leading platform to exchange and discuss the latest advancements, cutting-edge technologies, innovations, research findings and futuristic challenges in the field of Range Technologies. Prospective authors intending to participate in the conference are requested to submit original research articles on topics listed below:



TRACK I

Range Instrumentations: Electro Optics, Radar AND Telemetry Systems

1. Image & Video Processing and Analysis / Computer Vision
2. Image Enhancement, Modeling Registration and Fusion
3. Electro-Optic Sensors, Long-Range Optics & Processing Hardware
4. IR, Hyperspectral & Multispectral Imaging
5. Advances in Radar Signal Processing
6. Radar transmitters & receivers
7. Bistatic & Multistatic radars, Cognitive Radars, OTH & MIMO Radar
8. Air, ship and space-based instrumentation
9. Endgame assessment
10. Meteorological data acquisition, processing and forecasting
11. Phased array tracking instrumentation technologies
12. Flight termination system
13. Servo control system, Predictive control, Optimal control & Intelligent control system
14. Communication Systems: Spectrum management, Modulation, Coding, Equalization, Quantum error correction
15. Onboard & Ground Telemetry Systems
16. Quality and Reliability in Test Range Evaluation

TRACK II

Data Analytics: Decision Theory, AI & ML, High-Performance Computing, Networking & Cyber Security in Range Application

1. Parameter Estimation, Multi-Sensor Data Fusion
2. Decision Theory
3. Modeling and simulation of Test Range System
4. Range resource optimization including sensor deployment, trajectory planning etc.
5. Flight simulation & UAV or Aerial target path planning, Navigation optimization & collision avoidance
6. Advanced computing for aerospace testing and evaluation
7. High-Performance Computing for flight dynamics, aerodynamics and mission analysis
8. AI & ML based safety decision making
9. AI & ML based Meteorological analysis & Prediction
10. Intranet of Things based centralized sensor operation
11. Parallel computing-based Network centric data fusion
12. Cloud computing -SaaS, IaaS, PaaS, HaaS over LAN
13. Information security & Cyber physical system
14. Big Data analytics
15. Precision time generation, distribution and synchronization
16. Implementation of safety during Test & evaluation of weapon system

TRACK III

Antenna Technologies: RF & Microwave Systems/Terahertz Technologies

1. Advances in Antenna Technologies
2. AESA Systems & Technologies
3. High Power Microwave devices
4. Solid State Microwave devices/Circuits/MMIC
5. Metamaterials & FSS based Radar Absorbing Structure/Radar Absorbing Material
6. TRM Technologies
7. Radar Cross-section estimation & Measurement/ Stealth Technology
8. EMI/EMC/ESD
9. Computational Electromagnetics /RF & Microwave Simulation
10. Active & Passive RF Augmentation Systems
11. SDR & RF SoC Architecture
12. RF systems for aerial & surface target
13. AI & ML based Smart RF system
14. Terahertz Technologies for Communication/Radar application
15. GNSS Technologies

CONFERENCE DATES: 24-26 Feb 2027
VENUE: INTEGRATED TEST RANGE, CHANDIPUR

SUBMISSION GUIDELINES

- All papers should be written in English and should be 4-6 pages in A4 size.
- All manuscripts will be reviewed double-blind for technical content and scope
- Papers should be submitted in PDF format using two column IEEE format.
- Submit papers at: <https://edas.info/N35659>

IMPORTANT DATES

Paper Submission Deadline	15 Sep 2026
(Extended)	5 th Oct 2026
Notification to authors	15 Nov 2026
Final camera-ready paper	15 Dec 2026

REGISTRATION INFORMATION

Category	Indian National (INR)	Foreign National (USD)
Industry (IEEE / Non-IEEE)	₹ 10,000 / ₹ 12,000	\$ 105 / \$ 125
Academics (IEEE / Non-IEEE)	₹ 8,000 / ₹ 10,000	\$ 85 / \$ 105
Student (IEEE / Non-IEEE)	₹ 2,500 / ₹ 3,000	\$ 25 / \$ 30



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ORGANISING COMMITTEE

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IEEE
COMMUNICATION & COMPUTER SOCIETY
JOINT CHAPTER

Integrated Test Range (ITR) Chandipur
DRDO, Ministry of Defence

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