

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 going to organize 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 given 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 & multi-spectral imaging
5. Advances in radar signal processing
6. Radar transmitters & receivers
7. Bistatic & multi-static radars, Cognitive Radars, OTH & MIMO radar
8. Air, ship and space-based instrumentation
9. Endgame assessment (instruments, hardware and data analysis)
10. Meteorological data acquisition, processing and forecasting
11. Phased array tracking instrumentations technologies
12. Flight termination system
13. Servo control system, predictive control, optimal control & intelligent control system
14. Spectrum management, modulation, coding, equalization, quantum error correction
15. Communication Systems
16. Onboard & Ground Telemetry Systems

TRACK II DATA ANALYTICS, DECISION THEORY, AI & ML, HIGH- PERFORMANCE COMPUTING, IOT, 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. Advance computing for aerospace testing and evaluation
7. High-Performance Computing for flight dynamics, aero dynamics and mission analysis
8. AI & ML based safety decision making
9. AI-ML based Meteorological analysis & Prediction
10. Intranet of Things (IoT) based centralize 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. Meta Materials & 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 Electromagnetic /RF & Microwave Simulation
10. Active & Passive RF augmentation System
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 having 4-6 A4 size pages
- All manuscripts will be reviewed double-blind for technical content and scope
- Papers should be in PDF, two column IEEE format
- Submit paper at:
<https://edas.info/N35659>

IMPORTANT DATES

	Paper Submission Deadline	15 Sep 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

ORGANISING COMMITTEE

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JOINT CHAPTER



ACCEPTED PAPERS WILL BE PUBLISHED IN IEEE EXPLORER



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