

CALL FOR PAPERS

4th International Conference on Range Technology (ICORT)- 2025

CONFERENCE THEME: FUTURE DIRECTIONS IN RANGE TECHNOLOGY: APPLICATIONS OF AI & ML



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

About ICORT

Integrated Test Range, Chandipur, the premier test range of the country with state-of-the-art systems and facilities is all poised to organize the 4th International Conference on Range Technology ICORT-2025. The conference is aimed at bringing the range experts and technologists to a common platform to foster ideas and knowledge in all facets of technologies in the test ranges worldwide. Prospective authors intending to participate in the conference are requested to submit original research papers related to range technologies, such as, but not limited to:

Range Tracking Instrumentation: Electro Optics, Radar & Telemetry Systems

- Image & Video Processing & Analysis
- Image enhancement, modelling, registration & fusion
- Computer vision
- Electro-optic sensors, long range optics & processing hardware
- IR, hyper-spectral & multi-spectral imaging
- Application of Electro-optical tracking in Flight Vehicle test scenario
- Advances in radar receivers & signal processing
- Radar transmitters
- Bi-static & multi-static radars, cognitive radars, OTH & MIMO radars
- RCS estimation, measurement, enhancement and reduction techniques
- Air/ship borne, under & space based tracking instrumentation
- Endgame assessment (instrument, hardware and data analysis)

Data Analytics, Decision Theory, AI & ML in Aerospace & Defence Applications

- Parameter estimation
- Multi-source data fusion, data association & classification
- Decision theory
- AI&ML based safety decision making
- Range resource optimization including sensor deployment, trajectory planning etc.
- Modeling and simulation of Test Range systems
- Servo control, devices, predictive control, optimal control & intelligent control system
- Meteorological data acquisition, processing and forecasting
- Flight simulation
- UAV/Aerial target path planning & navigation
- Quality, reliability & safety in aerospace and defence applications
- AI & ML based Meteorological analysis & prediction

Antenna, RF, Microwave & Tera Hertz Technology

- Antennas and wave propagation
- Advanced phased array system
- Power amplifiers and related technologies
- High power Oscillators, High Power Microwave devices
- Microwave antenna, circuits, MMIC
- Flight Termination System
- RF Decoy Systems for target application
- Antenna and RF systems in Aerial and Surface target systems
- Miss Distance & scoring system
- GNSS technologies
- Terahertz technologies in communication and radar applications
- Testing of Directed Energy Weapons
- Smart and wide-band antenna
- Meta-materials and FSS based RAM and radomes

Communication, Networking & IoT

- Precision time generation, distribution and synchronization
- Spectrum management, modulation, coding, equalization, quantum error correction
- SDR, RF SoC architecture
- Software Defined Networking & IoT
- Information security, encryption, authentication & authorisation
- Network Security & Automated Threat Detection
- Cloud Computing, SAAS, IAAS, PAAS & HAAS over LAN
- Quantum Computing & communication
- Post Quantum Cryptography

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/newPaper.php?c=32910>

ORGANISING COMMITTEE

- Conference Chair: Shri K Suchendar, Director, ITR
- Conference Co-chair: Dr Arun Ray
- Technical Chair: Shri Milan Kumar Pal
- Convenor: Dr. Pravakar Mallick
- Technical Co-chair: Shri Dipak Das
- Co-convenor: Shri Pradyut Kumar Roy
- Treasurer: Shri A K Shrivastava
- Co-treasurer: Shri Chinmay Kumar Nayak

REGISTRATION INFORMATION

Category	Indian National (INR)	Foreign National (USD)
IEEE (Industry/Academia)	12000/7000	150/90
Non-IEEE (Industry/Academia)	14000/8000	175/100
Student (IEEE/Non-IEEE)	3000/3500	40/45

IMPORTANT DATES

30 NOV, 2024

Paper submission deadline

31 JANUARY, 2025

Acceptance notification

15 FEBRUARY 2025

Last date for Author Registration

06-08 MARCH 2025

Conference dates

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SUBMISSION LINK

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For More Information visit



Conference website

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