



3rd International Conference on Range Technology Integrated Test Range, DRDO, Chandipur, India



23 – 25 February, 2023

IEEE Communications and Computer Joint
Societies Chapter, CH10943

Call For Papers

About Conference

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 3rd International Conference on Range Technology ICORT-2023 in Hybrid mode.

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:

Antenna, RF & Radar Systems

- Advances in Antenna Technologies & Systems
- Wave Propagation through atmosphere, Plume, Plasma and other Anisotropic media & its effects on performance parameters of Rx-systems
- Phased Array Techniques: Analog and Digital beam forming
- Radar Transmitters – SSPA, HPA, High Power Oscillators, Modulators, TR modules & other High Power Microwave Devices.
- Conformal antenna, transmission line & MMIC
- Advances in Radar Receivers & Signal Processing
- Radar Cross Section (RCS), RCS Enhancement, Stealth Techniques & Radar Beacons
- Bi-static, Multi Static Radar, Cognitive Radar, Over The Horizon, MIMO, mm wave Radar, ROACH & Met Radar
- ECM & ECCM
- Radar for Range Applications : Tracking & Surveillance
- Advances in microwave signal measurements & measuring instruments

IR Tracking & Image Processing

- Image and Video Analysis and Processing for Range Applications Viz Sensing, Enhancement, Modelling, Registration and Fusion
- Recent Trends of Electro-Optics for Defence Applications: New Generation Sensors, Long Range Optics, Processing Hardware
- Deep Learning for Image and Video Processing
- Object Detection, Recognition, Classification and Tracking
- IR, Hyper Spectral and Multi-spectral Imaging
- Computational Imaging
- Image synthesis, Rendering & visualization

Telemetry, Communication & Flight Termination System

- Aeronautical Telemetry Systems – Ground Segment and Flight Segments
- PN Ranging, TDoA, Satellite Navigation
- Spectrum Management, Modulation, Coding, Equalization, Quantum Error Correction
- Secured Communication, Data Security, Quantum Encryption
- Active & Passive Repeaters for Communication & Telemetry using Aerial & Space Platforms
- Flight Termination Systems
- SDR, RF SoC Architectures & Applications
- Broadband, Mobile and Satellite Communication
- Green Communication, Wireless Networks, Optical Networks
- Software Defined Networking and IoT
- Audio / Video processing and Communication

Data Analytics, Decision Theory & Control Systems

- Recent Trends in Parameter and Dynamic Estimation, Multi-Source Data Fusion, Data Association, Data Classification
- Bayesian and MHT based Decision Making etc.
- AI, Machine/Deep Learning for Defence Applications
- Cloud Computing, Big Data Analytics for Range Application
- Modeling and Simulation of Range Instruments
- Industrial Servo Control, Drives, Predictive Control, Optimal Control & Intelligent Control Systems

Range Systems & Mission Management

- Range Safety
- UAV, Drones & Unmanned Targets for Range Applications
- Quality & Reliability
- Synchronization of Sensors using GNSS, NaVIC Constellation

Organising Committee

Chair: Shri H K Ratha, Director, ITR
Co-chair: Shri Manish Kumar Shrivastava
Technical Chair: Dr Pradipta Roy
Convener: Shri Pankaj Gupta
Technical Co-Chair: Shri Sandipan Sarkar
Co-Convener: Shri Prodyut Kumar Roy
Treasurer: Shri S K Pattnaik

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Important Dates

- Paper Acceptance Notification
10 JAN 2023
- Camera Ready Paper
25 JAN 2023
- Author Registration
31 JAN 2023
- Conference Dates
23-25 FEB 2023

Submission Guidelines

- All manuscripts will be reviewed double-blind for technical content and scope
- All submissions should be in English with maximum size of 6 A4 pages
- Papers should be in PDF, two columns IEEE format

Submission Link

<https://icort2023.edas.info>

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<https://icort.in>