



# 2<sup>nd</sup> International Conference on Range Technology Integrated Test Range, DRDO, Chandipur, India

5 – 6 August, 2021



IEEE Communications and Computer  
Societies Joint 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 2<sup>nd</sup> International Conference on Range Technology ICORT-2021 in virtual format.

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:

#### Antennas, RF & Microwave & Radar

- Antennas & Wave Propagation (Plume, Plasma & Atmospheric Effects)
- Phased Array, Analog and Digital beam forming
- Radar Transmitters - SSPA, HPA, High Power Oscillators, High Power Microwave Devices
- Microstrip Antenna, Component, Circuit & MMIC
- Advances in Radar Receivers & Signal Processing
- PN Ranging, TDoA, Satellite Navigation
- RCS & Radar Beacons
- Bistatic, Multi Static Radar, Cognitive Radar, Over The Horizon Radar, MIMO Radar & Met Radar
- ECM & ECCM
- Radar for Range Applications viz Tracking and Surveillance
- Emerging Technologies in Radar

#### 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
- Applications and Case Studies for Tracking with EO Sensors in Ranges
- Challenges in Electro-Optical Tracking: Environment and Geometry

#### Telemetry, Communication & Flight Termination System

- Aeronautical Telemetry Systems – Ground Segment and Flight Segments
- 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
- Ship-to-Shore Communication, Broadband Mobile Satellite Communication
- Green Communication, Wireless Networks, Optical Networks, Network & System Synchronization
- Software Defined Networking and IoT

#### Data Analytics, Decision Theory & Control Systems

- Recent Trends in Parameter and Dynamic Estimation, Multi-Source Data Fusion, Data Association, Data Classification
- Sensor Registration and Calibration
- Bayesian and MHT based Decision Making etc.
- AI, Machine Learning and Cloud Computing for Range Applications
- Modeling and Simulation of Range Instruments
- Industrial Servo Control, Drives, Predictive Control, Optimal Control & Intelligent Control Systems, Servo Control of Air-Borne & Ship-Borne Gimbals

### Organising Committee

#### Chair:

Shri H K Ratha, Director, ITR

**Co-chair:** Dr. Shrabani Ghosh

**Convener:** Shri Pankaj Gupta

**Technical Chair:** Dr. Pradipta Roy

**Treasurer:** Shri S K Pattnaik

#### Contact Details

**Convener:** +91 6782 274117

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### Important Dates



**Paper Submission**  
30 APR 15 MAY 2021

**Paper Acceptance Notification**

10 JUN 20 JUN 2021

**Registration & Camera Ready Paper Due**  
01 JUL 2021

**Conference Dates**  
5-6 Aug 2021

#### Submission Link

<https://icort2021.edas.info/>

### 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
- Selected papers will be published in IEEEXplore Digital Library

#### Visit for more info

<https://drdo.gov.in/icort-21>

[www.icort.in](http://www.icort.in)