ICORT-2021

2nd International Conference on Range Technology -2021

05-06 August 2021

Integrated Test Range, Chandipur, the premier test range of the country with state-of-the-art systems and facilities is going to organise the Second International Conference on Range Technology (ICORT-2021). The conference will be held on virtual platform and the consent from IEEE is awaited for technical sponsorship.

The conference is aimed at aggregating Test Range experts and technologists to a common platform in order 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 articles on topics (given below but not limited to) related to Test Range technologies. Standard IEEE conference paper format to be followed and the length of the final paper should be no more than 6 pages in A4 size.

Important Dates

Paper Submission	30th April 2021
Notification to the Authors	10th June 2021
Final Camera Ready Paper	1st July 2021

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
- Microwave Strip 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

Organiser: Integrated Test Range, Chandipur. DRDO, Ministry of Defence : **Technical Partner:** Comn and Computer Societies Jt. Chapter, IEEE, Kolkata Section: **Contact:** convener_icort@itr.drdo.in : **Technical Queries:** technical_icort@itr.drdo.in : **Website:** under construction