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

15 – 17 February, 2023

ICORT
IEEE KOLKATA SECTION
IEEE Bhubaneswar Subsection

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

Contact Details
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Important Dates

Paper Submission
30 SEP 2022

Paper Acceptance Notification
31 OCT 2022

Registration & Camera Ready Paper Due
31 DEC 2022

Conference Dates
15-17 FEB 2023

Submission Link
https://icort2023.edas.info
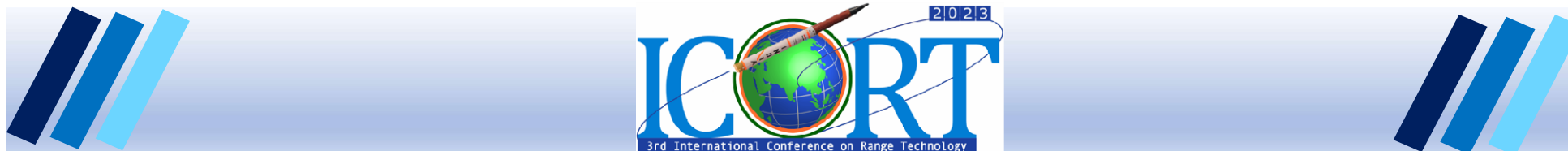
Submission Guidelines
- All manuscripts will be reviewed double-blind for technical content and scope
- All submissions should be in English with maximum size of 6 A4 pages
- Papers should be in PDF, two columns IEEE format

Visit for more info
https://icort.in

3rd IEEE International Conference on Range Technology (ICORT-2023)

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15-17 February 2023

About the Conference

Integrated Test Range, Chandipur, the premier Test Range of the country with state-of-the-art systems and facilities is going to organise the **3rd IEEE International Conference on Range Technology (ICORT-2023)**. The conference will be held on hybrid platform.

Previous two editions of ICORT were aimed at aggregating Test Range experts and technologists to a common platform in order to foster ideas and knowledge in all facets of technologies required in a Test Range. ICORT-2023 carries forward the idea in order to explore the futuristic challenges for a Test Range posed due to technological advancement in weapon systems, complex test scenarios etc. and working towards solutions to mitigate those.

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.

Theme & Technical Tracks

Theme: Test & Evaluation of Weapon Systems: The Global Perspective

- Antenna, RF, Microwave & Radar
- Telemetry, Communication & Flight Termination System
- IR Tracking & Image Processing
- Data Analytics, Decision Theory & Control Systems
- Range Systems & Mission Management

Important Dates

Paper Submission	:	30 September 2022
Notification to authors	:	31 October 2022
Final camera-ready paper	:	31 December 2022

Registration Fee

Category	Indian IEEE	Indian non-IEEE	Overseas IEEE	Overseas Non-IEEE
Industry	₹ 10,000	₹ 12,000	$ 150	$ 175
Academics	₹ 8,000	₹ 10,000	$ 125	$ 150
Students	₹ 2,500	₹ 3,000	$ 35	$ 45

Organising Team

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

Organiser: Integrated Test Range, Chandipur, DRDO

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